TECNOSOFT CATALOGUE & PRICE LIST

TEMPERATURE, HUMIDITY, PRESSURE MONITORING SOLUTIONS

TECNO Soft

General Index

GUIDE TO TECNOSOFT SYSTEMS AND THEIR APPLICATION

Tecnosoft systems for temperature and humidity monitoring find application in all kind of fields where such controls are required, from food market to pharmaceutical industry, to logistic and warehouses control, to transport and environment monitoring. Our solutions are designed at the root with one application in mind, so to give the best performance when applied for that specific application but can be easily used and configured for any application you have in mind.
Here is a list of our systems and their most common applications, but you always may find a new way to use them for your own needs. All the devices are provided (some on request) with a calibration certificate.

TempNFC – for temperature in environments, transport, fridges

System	Applications	Advantages
TempNFC (all versions) Android device with NFC App TempNFC	Transport monitoring Fridges monitoring Environment control	No PC or accessory needed Immediate data sharing Small Size Single Use version – no reverse logistic cost

TempBLE – for temperature in environments, transport, fridges

System	Applications	Advantages
TempBLE Android device with BlueTooth 4.0 App for TempBLE	Transport monitoring Fridges monitoring Environment control	No PC or accessory needed Immediate data sharing Small Size Remote real time monitoring

TempUSB – for temperature in environments, transport, fridges

System	Applications	Advantages
TempUSB (all versions) Dgraph software	Transport monitoring Fridges monitoring Environment control	Connect it directly to the PC USB port Easy to use External probe and LCD versions available

TempPDF – for temperature in environments, transport, fridges

System	Applications	Advantages
TempPDF Log Connect software (optional)	Transport monitoring Fridges monitoring Environment control	Connect it directly to the PC USB port Easy to use PDF report automatically generated, no software needed

TempStick – for temperature in environments, transport, fridges

System	Applications	Advantages
TempStick TempStick Probe TecnoStick Interface StickLog Pro software	Transport monitoring Fridges monitoring Food/liquid monitoring at their core (probe versions) Environment control Temperature mapping	Small Size High Accuracy (with calibration certificate) No extra battery costs (10 years internal battery)

TempStick SRI – for temperature in transport but also environments, fridges

System	Applications	Advantages
TempStick TempStick Probe SRI StickLog Pro software	Transport monitoring Fridges monitoring Food/liquid monitoring at their core (probe versions) Environment control Warehouses and stockhouses Temperature mapping	Small Size High Accuracy (with calibration certificate) No extra battery costs (10 years internal battery) Portable interface with MKT calculation (no need for a PC for download and program)

HumiUSB – for temperature and humidity in environments, transport, museums, laboratories

System	Applications	Advantages
HumiUSB (all versions) Dgraph software	Transport monitoring Environment control Museums Laboratories Green houses	Connect it directly to the PC USB port Easy to use LCD version available

HumiPDF – for temperature and humidity in environments, transport, museums, laboratories

System	Applications	Advantages
HumiPDF Log Connect software (optional)	Transport monitoring Environment control Museums Laboratories Green houses	Connect it directly to the PC USB port Easy to use PDF report automatically generated, no software needed

HumiStick – for temperature and humidity in environments, transport, museums, laboratories

System	Applications	Advantages
HumiStick TecnoStick Interface StickLog Pro software	Transport monitoring Environment control Museums Laboratories Green houses	Small Size Calibration certificate No extra battery costs (10 years internal battery)

HumiStick SRI – for temperature and humidity in transport but also environments

System	Applications	Advantages
HumiStick SRI StickLog Pro software	Transport monitoring Environment control Warehouses and stockhouses	Small Size No extra battery costs (10 years internal battery) Portable interface with MKT calculation (no need for a PC for download and program)

DLHT – for temperature and humidity in laboratories, environments, fridges

System	Applications	Advantages
DLHT DLHT software	Environment control Laboratories control Pharmaceutical purposes Continuous monitoring	Calibration certificate User replaceable batteries Display with current data, all saved data, graphs Local alarms 21 CFR Part 11 software

FridgeLog Z basic – for temperature and humidity in environments, fridges

System	Applications	Advantages
TempStick TempStick Probe HumiStick FLI FridgeLog Z software	Fridges monitoring Warehouses and Logistic centres Continuous monitoring	Small Size High Accuracy (with calibration certificate) No extra battery costs (10 years internal battery) HACCP software with ISO management Thermal history for each fridge (data appended one after the other)

FridgeLog Z wireless – for real time temperature and humidity in environments, fridges, ultra-freezers

System	Applications	Advantages
ZED IT Syrinx FridgeLog Z software USB modem	Fridges, ultra-freezers, fridge cells monitoring Warehouses and Logistic centres Continuous monitoring	High Accuracy User replaceable 1.5V commercial batteries IP67 case HACCP software with ISO management Thermal history for each point Wireless transmission with possibility of email and SMS alarms Bidirectional transmission: retrieve data in case of lost transmissions Easy and quick recalibration with the Intelligent Sensors Radio bridge between the Zeds to extend communication range

Pasteurisation processes - for temperature up to 100°C

System	Applications	Advantages
SterilDisk (all versions) PasteurDisk Can P-Micro / P-Micro L / P-Micro XL DiskInterface HS or DiskInterface HS Mini (for SterilDisk, P-Micro only) SPD software (included with the interface) Fastening solutions (optional)	Pasteurisation processes monitoring (up to 100°C)	High Accuracy (with calibration certificate) High life batteries (user replaceable) Food grade devices Different kind of probes No need to cool it down after each process, no time limit at highest temperature Fitting tool for any food package Pasteurisation Units calculation Multi-graph analysis

Pasteurisation processes wireless – for temperature up to 100°C in single pasteuriser

System	Applications	Advantages
P-Radio DiskInterface HS USB Radio Receiver SPD software (included with the interface) Fastening solutions (optional)	Pasteurisation processes real time monitoring (up to 100°C)	High Accuracy High life batteries Food grade devices Different kind of probes Fitting tool for any food package No time limit at highest temperature Real time monitoring Pasteurisation Units calculation Multi-graph analysis Local alarms Use many loggers in a single pasteuriser

Pasteurisation processes wireless – for temperature up to 100°C in multi pasteurisers

System	Applications	Advantages
P-Radio DiskInterface HS USB or Ethernet Radio Receiver Process Monitor software (Lite and Pro versions) Fastening solutions (optional)	Pasteurisation processes real time monitoring (up to 100°C)	High Accuracy High life batteries Food grade devices Different kind of probes Fitting tool for any food package No time limit at highest temperature Real time monitoring Pasteurisation Units calculation Multi-graph analysis Monitor many pasteurisers at once Alarms on each pasteuriser when end of process approaches (Pro version only)

Sterilisation processes - for temperature up to 140°C

System	Applications	Advantages
SterilDisk S-Disk J S-Micro / S-Micro L / S-Micro XL S-MicroW L / S-MicroW XL DiskInterface HS or DiskInterface HS Mini (for SterilDisk and S-Micro only) SPD software (included with the interface) Fastening solutions (optional)	Sterilisation processes monitoring (up to 140°C)	High Accuracy High life batteries (user replaceable) Food grade devices Different kind of probes Resist to high pressure No need to cool it down after each process, no time limit at highest temperature Fitting tool for any surface F0 calculation Multi-graph analysis Use many loggers in a single autoclave

Sterilisation processes wireless – for temperature up to 140°C in single autoclave

System	Applications	Advantages
S-Radio DiskInterface HS USB Radio Receiver SPD software (included with the interface) Fastening solutions (optional)	Sterilisation processes real time monitoring (up to 140°C)	High Accuracy High life batteries Food grade devices Different kind of probes Resist to high pressure No time limit at highest temperature Real time monitoring Fitting tool for any surface F0 calculation Multi-graph analysis Use many loggers in a single autoclave

Sterilisation processes wireless – for temperature up to 140°C in multi autoclaves

System	Applications	Advantages
S-Radio DiskInterface HS USB or Ethernet Radio Receiver Process Monitor software (Lite and Pro version) Fastening solutions (optional)	Sterilisation processes real time monitoring (up to 140°C)	High Accuracy High life batteries Food grade devices Different kind of probes Resist to high pressure No time limit at highest temperature Real time monitoring Fitting tool for any surface F0 calculation Multi-graph analysis Monitor many autoclaves at once Alarms on each autoclave when end of process approaches (Pro version only)

Lyophilization processes - for temperature from -80°C

System	Applications	Advantages
L-Disk DiskInterface HS SPD software (included with the interface)	Lyophilization processes monitoring (from -80°C) Surface contact monitoring	High Accuracy High life batteries (user replaceable) Food grade devices Resist to high pressure No need to cool it down after each process, no time limit at highest temperature F0 calculation Multi-graph analysis Use many loggers in a single process

Ultra-freezers - for temperature from -80°C

System	Applications	Advantages
S-MicroW L / S-MicroW XL S-Disk J DiskInterface HS SPD software (included with the interface)	Ultra-freezers monitoring (from -80°C)	High Accuracy High life batteries (user replaceable) Food grade devices Different kind of probes F0 calculation Multi-graph analysis

PressureDisk – temperature up to 140°C and pressure up to 5 bar absolute

System	Applications	Advantages
PressureDisk PressureDisk 05 (pressure only) PressureDisk V (vacuum) DiskInterface HS HumiPressureDisk software (included with the interface)	Sterilisation processes monitoring Autoclave validation	High Accuracy High life batteries (user replaceable) Food grade devices Resist to high pressure No need to cool it down after each process, no time limit at highest temperature

RHTemp80 – temperature up to 80°C and humidity

| System	Applications	Advantages
RHTemp80 / RHTemp80 XL DiskInterface HS HumiPressureDisk software (included with the interface)	Monitoring of grain and dust and products highly sensible to humidity in a high temperature environment Environment mapping Validation of machineries and environments	High Accuracy High life batteries (user replaceable) Food grade devices Small and easy to use

RHTemp125 – temperature up to 125°C and humidity

System	Applications	Advantages
RHTemp125 / RHTemp125 XL DiskInterface HS HumiPressureDisk software (included with the interface)	Drying processes monitoring Environment mapping Validation of machineries and environments	High Accuracy High life batteries (user replaceable) Food grade devices Small and easy to use

TS Manager – temperature and pressure for autoclaves, pasteurisers, retorts, washer disinfectors, lyophilizators, fridges and ultra-freezers validation

System	Applications	Advantages
SterilDisk S-Disk J S-Micro / S-Micro L / S-Micro XL S-MicroW L / S-MicroW XL L-Disk PressureDisk 05 / PressureDisk PressureDisk V DiskInterface HS TS Manager software	Validation of autoclaves, retorts, washer disinfectors, lyophilizators, fridges, ultra-freezers Validation of sterilisation, pasteurisation, lyophilization processes Sterilisation and pasteurisation processes monitoring	High Accuracy High life batteries (user replaceable) Food grade devices Different kind of probes Resist to high pressure No need to cool it down after each process, no time limit at highest temperature Lethality (F0, A080, A090 etc.) calculation Multi-graph analysis Completely 21 CFR Part 11 compatible Useful features for autoclave validators

TS Manager – temperature and humidity for validation of drying processes, machines, environments

System	Applications	Advantages
RHTemp125 / RHTemp125 XL DiskInterface HS TS Manager software	Validation and monitoring of drying processes Environment mapping Validation of machineries and environments	High Accuracy High life batteries (user replaceable) Food grade devices Lethality (F0, A080, A090 etc.) calculation Multi-graph analysis Completely 21 CFR Part 11 compatible Useful features for validators and manufacturers
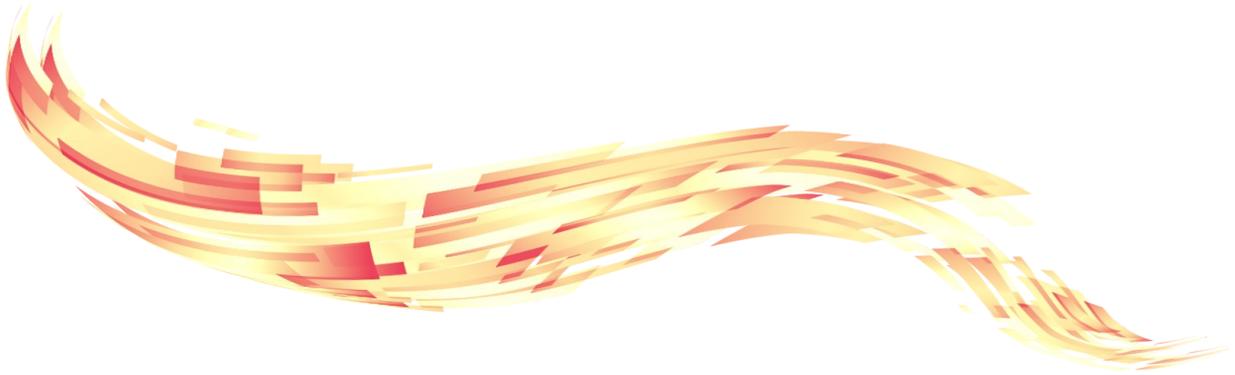
TEMPERATURE

Temperature monitoring devices and systems in several fields and applications. From fridge cells and fridges to transport and process monitoring (sterilisation, pasteurisation etc.): each solution is designed specifically on the different application needs, with dedicated software and accessories.

TempNFC

TempNFC – Contact less temperature data logger with NFC technology managed through Android devices with dedicated App from Google Play. The data logger is available in different versions, with calibration certificate included too or sold separately.

NO ACCESSORY REQUIRED!

Dimensions	60 X 15 X 90 mm
Temperature range	-30˚C ÷ 50˚C
Temperature resolution	0,01˚ C
Temperature accuracy	± 0.5˚C without certificate ± 0,2˚C with Accredia traceable certificate (valid in the calibration range)
Memory	3912 (may diminish according to the amount of notes)
Acquisition rate	From 1 second up (in steps of 1 second)
Battery life	Up to 10 years or 3 millions of acquisitions

Prices in Euro €

TempNFC Single Use
Disposable

TempNFC
Reusable without limits

TempNFC Calib
Reusable till calibration expiry date and can be reactivated with recalibration
TS01TNFCC1 - TempNFC Calib 1: Calibration certificate on 1 point of calibration, chosen among -30/0/20/50°C, included
TS01TNFCC2 - TempNFC Calib 2: calibration certificate on 4 standard points -30/0/20/50°C included

Qt.	TS01TNFCS
5	Call
20	12,92
50	12,16
100	11,40
250	11,10
500	10,70
750	10,03
1000	9,43

Qt.	TS01TNFC
5	Call
20	#VALORE!
50	#VALORE!
100	#VALORE!
250	#VALORE!
500	#VALORE!
750	#VALORE!
1000	#VALORE!

Qt.	TS01TNFCC1	TS01TNFCC2
5	Call	Call
20	#VALORE!	#VALORE!
50	#VALORE!	#VALORE!
100	#VALORE!	#VALORE!
250	#VALORE!	#VALORE!
500	#VALORE!	#VALORE!
750	#VALORE!	#VALORE!
1000	#VALORE!	#VALORE!
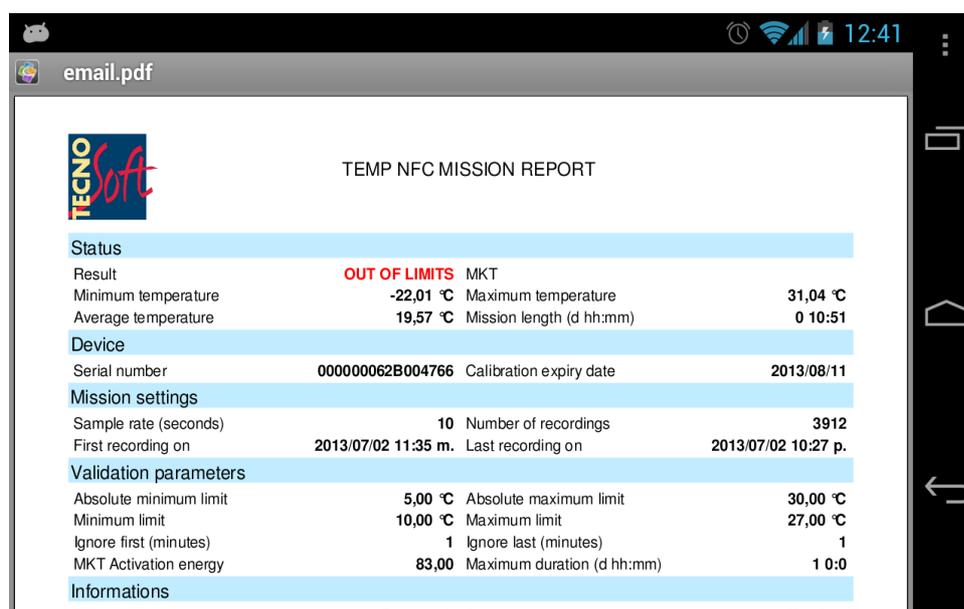
Calibration certificates
You can request the calibration certificate when purchasing TempNFC and TempNFC Single Use
TS01TNFCA1 – Calibration certificate on 1 point of calibration, chosen among -30/0/20/50°C
TS01TNFCA2 - Calibration certificate on 4 standard points -30/0/20/50°C

Qt.	TS01TNFCA1	TS01TNFCA2
5	Call	Call
20	#VALORE!	#VALORE!
50	#VALORE!	#VALORE!
100	#VALORE!	#VALORE!
250	#VALORE!	#VALORE!
500	#VALORE!	#VALORE!
750	#VALORE!	#VALORE!
1000	#VALORE!	#VALORE!

Recalibration service
You can request the annual recalibration service for each version of TempNFC available
TS01TNFCA11 – Recalibration service on 1 point of calibration, chosen among -30/0/20/50°C
TS01TNFCA21 - Recalibration service on 4 standard points -30/0/20/50°C

Qt.	TS01TNFCA11	TS01TNFCA21
5	Call	Call
20	#VALORE!	#VALORE!
50	#VALORE!	#VALORE!
100	#VALORE!	#VALORE!
250	#VALORE!	#VALORE!
500	#VALORE!	#VALORE!
750	#VALORE!	#VALORE!
1000	#VALORE!	#VALORE!

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the standard range. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

TempNFC RC (Rigid Case) – Contact less temperature data logger with NFC technology, with rigid case, managed through Android devices with dedicated App from Google Play. The data logger is available in different versions, with calibration certificate included too or sold separately.

Dimensions	64 X 18 X 93 mm
Temperature range	-30˚C ÷ 60˚C
Temperature resolution	0,01˚ C
Temperature accuracy	± 0.5˚C without certificate ± 0,2˚C with Accredia traceable certificate (valid in the calibration range)
Memory	3912 (may diminish according to the amount of notes)
Acquisition rate	From 1 second up (in steps of 1 second)
Battery life	Up to 10 years or 3 millions of acquisitions **user replaceable**

Prices in Euro €

TempNFC RC
Reusable without limits

Calibration certificates
You can request the calibration certificate when purchasing the data logger
TS01TNFCA2 - Calibration certificate on 4 standard points -30/0/20/50°C

Recalibration service
You can request the annual recalibration service for the data logger
TS01TNFCA21 - Recalibration service on 4 standard points -30/0/20/50°C

Qt.	TS01TNFCR
5	Call
20	#VALORE!
50	#VALORE!
100	#VALORE!
250	#VALORE!
500	#VALORE!
750	#VALORE!
1000	#VALORE!

Qt.	TS01TNFCA2
5	Call
20	#VALORE!
50	#VALORE!
100	#VALORE!
250	#VALORE!
500	#VALORE!
750	#VALORE!
1000	#VALORE!

Qt.	TS01TNFCA21
5	Call
20	#VALORE!
50	#VALORE!
100	#VALORE!
250	#VALORE!
500	#VALORE!
750	#VALORE!
1000	#VALORE!

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the operative range -30°C ÷ 60°C. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

How to choose the right model for your application?

If your activity is temperature controlled **transport** and the **data logger returns to the sender** at the end of the transport to be downloaded or the drivers take care of it, choose the **reusable** version, TS01TNFC.

Choose **reusable** version, TS01TNFC, if you need to monitor **fridges and environments** too.

If your business is transport and you **don't want to manage reverse logistic**, meaning you don't want the logger to be shipped back to you after delivery, and the data will be downloaded directly by the recipient with its own smartphone and immediately shared with you, the sender, choose the **single use** version, TS01TNFCS.

Both for reusable and single use version it is possible to order the **calibration certificate on 1 point** chosen among the standard ones, TS01TNFCA1, and the **calibration certificate on 4 standard points**, TS01TNFCA2. The same codes are used to order recalibration for any model of TempNFC. Annual calibration is suggested.

If your application demands the use of a calibrated device, **valid in the last year**, and you don't want to risk to use devices with a calibration older than a year, choose the **TempNFC Calib with certificate** on 1 point chosen among the standard ones, TS01TNFCC1, and with certificate on the 4 standard points, TS0TNFCC2, versions. When the calibration expires (after one year) the logger cannot be reprogrammed but can be reactivated sending it back for recalibration.

To be recalibrated the loggers must be sent back to Tecnosoft.

Compatible devices
All Android devices version 4.1.2 and with NFC features.
For an updated and complete list of tested devices, please visit here: http://www.tempnfc.com/app.html#ANDROID_DEVICES
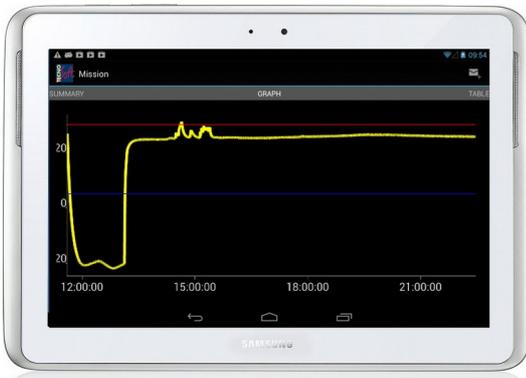
TempNFC Android App downloadable from Google Play

Data management	Data stored in internal memory, SD Card, Dropbox; share via email
Data display	Graph, table, mission parameter summary, PDF
Information input	Via display keyboard, voice, Barcode/QR Code reader

Available versions

Lite	Pro	Enterprise (Ent)

Tecno Cloud – Subscriptions
To be able to use the Cloud you will need at least 1 Administrator account and the Enterprise (Ent) version of the App, downloadable for free from Google Play. If you want to assign groups of TempNFC loggers to different users, to avoid that each one can see the loggers and data from the others, buy also users licences, one for each operator. Administrator will always see data from everybody.

TS15CLA	CLOUD SUBSCRIPTION FOR ADMINISTRATOR ACCOUNT - 1 YEAR	Call €
TS15CLA10	CLOUD SUBSCRIPTION FOR ADMIN. + 10 USERS - 1 YEAR	Call €
TS15CLA100	CLOUD SUBSCRIPTION FOR ADMIN. + 100 USERS - 1 YEAR	Call €
TS15CLU5	CLOUD SUBSCRIPTION FOR 5 USERS - 1 YEAR	Call €
TS15CLU10	CLOUD SUBSCRIPTION FOR 10 USERS - 1 YEAR	Call €
TS15CLU50	CLOUD SUBSCRIPTION FOR 50 USERS - 1 YEAR	Call €
TS15CLU100	CLOUD SUBSCRIPTION FOR 100 USERS - 1 YEAR	Call €

TempBLE

TempBLE – Bluetooth temperature data logger managed through Android devices with dedicated App from Google Play. It is possible to buy separately the calibration certificate.

Dimensions	64 X 18 X 93 mm
Temperature range	-30˚C ÷ 60˚C
Temperature resolution	0,01˚ C
Temperature accuracy	± 0.5˚C without certificate ± 0,2˚C with Accredia traceable certificate (valid in the calibration range)
Memory	3912 (may diminish according to the amount of notes)
Acquisition rate	From 1 minute up (in steps of 1 minute)
Battery life	2X1,5V, up to 2 years life **user replaceable**

TS01TBL	TEMPBLE	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS01TBLC	CALIBRATION CERTIFICATE FOR TEMPBLE	Call €

TS01TBLC1	RECALIBRATION SERVICE FOR TEMPBLE	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the standard range. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

TempBLE Accessories

Bluetooth printer – A Bluetooth thermal printer to be connected to your smartphone and, then, to the TempBLE App, is available, to immediately print all the recorded acquisitions on a "receipt" to be given upon delivery to the recipient of the goods.

Printing method	On thermal paper
App	TempBLE
Connection	USB, Bluetooth, external power (power adapter included)

TS01TBLP	BLUETOOTH PRINTER FOR TEMPBLE APP	Call €

TempUSB

TempUSB – USB temperature data logger with LEDs for out of limits alarm, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UT	TEMPUSB	**Call €**

TempUSB-L – USB temperature data logger with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UTL	TEMPUSB-L	**Call €**

TempUSB-HL – USB high accuracy temperature data logger with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,2 ˚C
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8 (32, 64 bit) Downloadable from www.tecnosoft.eu

NO ACCESSORY REQUIRED!

TS17UTHL	TEMPUSB-HL	**Call €**

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS17UTC	CALIBRATION CERTIFICATE FOR TEMPUSB	**Call €**

TS17UTC1	RECALIBRATION SERVICE FOR TEMPUSB	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -35 °C ÷ +80 °C. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	**Call €**

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	**Call €**

Software allows recalibration on two points (reference instrument needed).
To be verified with Tecnosoft parameters the loggers must be sent back to Tecnosoft.

TempUSB-LE – USB temperature data logger with LEDs for out of limits alarm, display and external probe sensor, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Probe temperature range	-40 ˚C ÷ +125 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UTLE	TEMPUSB-LE	Call €

TempUSB-HLE – USB high accuracy temperature data logger with LEDs for out of limits alarm, display and external probe sensor, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Probe temperature range	-40 ˚C ÷ +125 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,2 ˚C
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UTHLE	TEMPUSB-HLE	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS17UTC	CALIBRATION CERTIFICATE FOR TEMPUSB	Call €

TS17UTC1	RECALIBRATION SERVICE FOR TEMPUSB	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +125 °C. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	Call €

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	Call €

Software allows recalibration on two points (reference instrument needed).
To be verified with Tecnosoft parameters the loggers must be sent back to Tecnosoft.

TempPDF

TempPDF – USB temperature data logger with LEDs for out of limits alarm, automatically generates a PDF report that can be displayed without any additional software (optional Windows software downloadable from Tecnosoft website). It is possible to buy separately the calibration certificate.

Dimensions	100 X 19 X 19 (mm)
Temperature range	-40 ˚C ÷ +70 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C (tra -10 ˚C ÷ +40 ˚C)
Memory	60.000
Acquisition rate	From 1 every 30 seconds to 1 every 24 hours
Battery life	Nearly 3 years with 15 minutes acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit)

TS20PT	TEMPPDF	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS20PTC	CALIBRATION CERTIFICATE FOR TEMPPDF	Call €

TS20PTC1	RECALIBRATION SERVICE FOR TEMPPDF	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +70 °C. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	Call €

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

TempStick

TempStick – Temperature data logger managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

Dimensions	50 X 22 X 10 hh (mm)
Temperature range	-30 ˚C ÷ +60 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 1˚C without certificate ± 0,25˚C with Accredia traceable certificate (valid in the calibration range)
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TS	TEMPSTICK	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS01TSC	TEMPSTICK CALIBRATION CERTIFICATE	Call €

TS01TSE	TEMPSTICK, TEMPSTICK PROBE RECALIBRATION	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the standard range. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use TempSticks both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick Probe with handle – Temperature data logger with external stainless steel probe, cable and handle, managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cavo 2000 l X 3 Ø (mm) sonda 280 l X 3 Ø (mm)
Temperature range	Data logger: -30 °C ÷ +60 °C Probe: -40 °C ÷ +90 °C
Temperature resolution	0,03 °C
Temperature accuracy	± 1°C without certificate ± 0,25°C with Accredia traceable certificate (valid in the calibration range)
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSPBL02	TEMPSTICK PROBE WITH HANDLE	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS01TSPC	TEMPSTICK PROBE CALIBRATION CERTIFICATE	Call €

TS01TSE	TEMPSTICK, TEMPSTICK PROBE RECALIBRATION	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +90 °C. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use TempSticks Probe both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick Probe – Temperature data logger with external stainless steel probe and cable, managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cable 300 l X 4 Ø (mm) or longer probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Temperature range	Data logger: -30 °C ÷ +60 °C Probe: -40 °C ÷ +80 °C
Temperature resolution	0,03 °C
Temperature accuracy	± 1°C without certificate ± 0,25°C with Accredia traceable certificate (valid in the calibration range)
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSPBU03	TEMPSTICK PROBE	Call €
TS01TSPBU04	TEMPSTICK PROBE	Call €
TS01TSPBU05	TEMPSTICK PROBE	Call €
TS01TSPBU06	TEMPSTICK PROBE	Call €

TempStick Probe IP68 – Temperature data logger with external stainless steel probe and cable, with IP68 case for complete immersion, managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

IMMERGIBILE

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cable 300 l X 4 Ø (mm) or longer probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Temperature range	Data logger: -30 °C ÷ +60 °C Probe: -40 °C ÷ +80 °C
Temperature resolution	0,03 °C
Temperature accuracy	± 1°C without certificate ± 0,25°C with Accredia traceable certificate (valid in the calibration range)
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSP68BU03	TEMPSTICK PROBE WITH IP68 PROTECTION	Call €
TS01TSP68BU04	TEMPSTICK PROBE WITH IP68 PROTECTION	Call €
TS01TSP68BU05	TEMPSTICK PROBE WITH IP68 PROTECTION	Call €
TS01TSP68BU06	TEMPSTICK PROBE WITH IP68 PROTECTION	Call €

Cable and probes

TempStick Probe may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

TS04BU	1 METER BU CABLE	**Call €**

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS01TSPC	TEMPSTICK PROBE CALIBRATION CERTIFICATE	**Call €**

TS01TSE	TEMPSTICK, TEMPSTICK PROBE RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +80 °C. In the range -30 °C ÷ +80 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**
TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use TempSticks Probe both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick Probe with thin cable – Temperature data logger with external stainless steel probe and thin cable, managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cable 300 l X 4 Ø (mm) or longer probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Temperature range	Data logger: -30 ˚C ÷ +60 ˚C Probe: -40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 1˚C without certificate ± 0,25˚C with Accredia traceable certificate (valid in the calibration range)
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSPTF03	TEMPSTICK PROBE WITH THIN CABLE	**Call €**
TS01TSPTF04	TEMPSTICK PROBE WITH THIN CABLE	**Call €**
TS01TSPTF05	TEMPSTICK PROBE WITH THIN CABLE	**Call €**
TS01TSPTF06	TEMPSTICK PROBE WITH THIN CABLE	**Call €**

Cable and probes
TempStick Probe may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

TS04TF	1 METER 2 mm TEFLON CABLE	**Call €**

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Calibration/recalibration standard points are: -30/0/20/60°C.

TS01TSPC	TEMPSTICK PROBE CALIBRATION CERTIFICATE	**Call €**

TS01TSE	TEMPSTICK, TEMPSTICK PROBE RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +80 °C. In the range -30 °C ÷ +80 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use TempSticks Probe both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick Probe -80 – Temperature data logger with external stainless steel probe and thin cable, managed with Windows software and USB interface. **Accredia traceable certificate is included (calibration standard points: -80/-40/0/20°C).**

FROM -80°C

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cable 300 l X 4 Ø (mm) or longer probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Temperature range	Data logger: -30 °C ÷ +60 °C Probe: -80 °C ÷ +20 °C
Temperature resolution	0,03 °C
Temperature accuracy	± 0,25°C in the range -30 °C ÷ +20 °C ± 0,5°C in the range -80 °C ÷ +30 °C
Memory	2.730
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSP-80TF03	TEMPSTICK PROBE -80	**Call €**
TS01TSP-80TF04	TEMPSTICK PROBE -80	**Call €**
TS01TSP-80TF05	TEMPSTICK PROBE -80	**Call €**
TS01TSP-80TF06	TEMPSTICK PROBE -80	**Call €**

Cable and probes
TempStick Probe -80 may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

TS04TF	1 METER 2 mm TEFLON CABLE	**Call €**

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: -80/-40/0/20°C.

TS01TSE-80	TEMPSTICK PROBE -80 RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the standard range. In the range -30 °C ÷ +20 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**
TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use TempSticks Probe both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick Probe 200 – Temperature data logger with external stainless steel probe and thin cable, managed with Windows software and USB interface. **Accredia traceable certificate is included (calibration standard points: 4 within 120°C range in the range 0 °C ÷ +200 °C).**

Dimensions	50 X 22 X 10 hh (mm)
Probe dimensions	cable 300 l X 4 Ø (mm) or longer probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Temperature range	Data logger: -30 ˚C ÷ +60 ˚C Probe: 0 ˚C ÷ +200 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valid in the calibration range. Maximum calibration range: 120˚C within the range 0 ˚C ÷ +200 ˚C)
Memory	2.730
Acquisition rate	Da 1 al minuto a 1 ogni 255 minuti
Battery life	Up to 10 years or 3 millions of acquisitions

TS01TSP200TF03	TEMPSTICK PROBE 200	Call €
TS01TSP200TF04	TEMPSTICK PROBE 200	Call €
TS01TSP200TF05	TEMPSTICK PROBE 200	Call €
TS01TSP200TF06	TEMPSTICK PROBE 200	Call €

Cable and probes
TempStick Probe 200 may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

TS04TF	1 METER 2 mm TEFLON CABLE	Call €

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are 4 within a 120°C span within the range 0 °C ÷ +200 °C. Specify the calibration points before purchase or recalibration.

TS01TSE200	TEMPSTICK PROBE 200 RECALIBRATION	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the requested calibration range. In the range 0 °C ÷ +60 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

Calibration/recalibration extra points price within the range +60 °C ÷ +200 °C is intended for every 2 loggers:

TS01EXCALHT2	EXTRA CALIBRATION POINT VERY HIGH TEMPERATURE	Call €

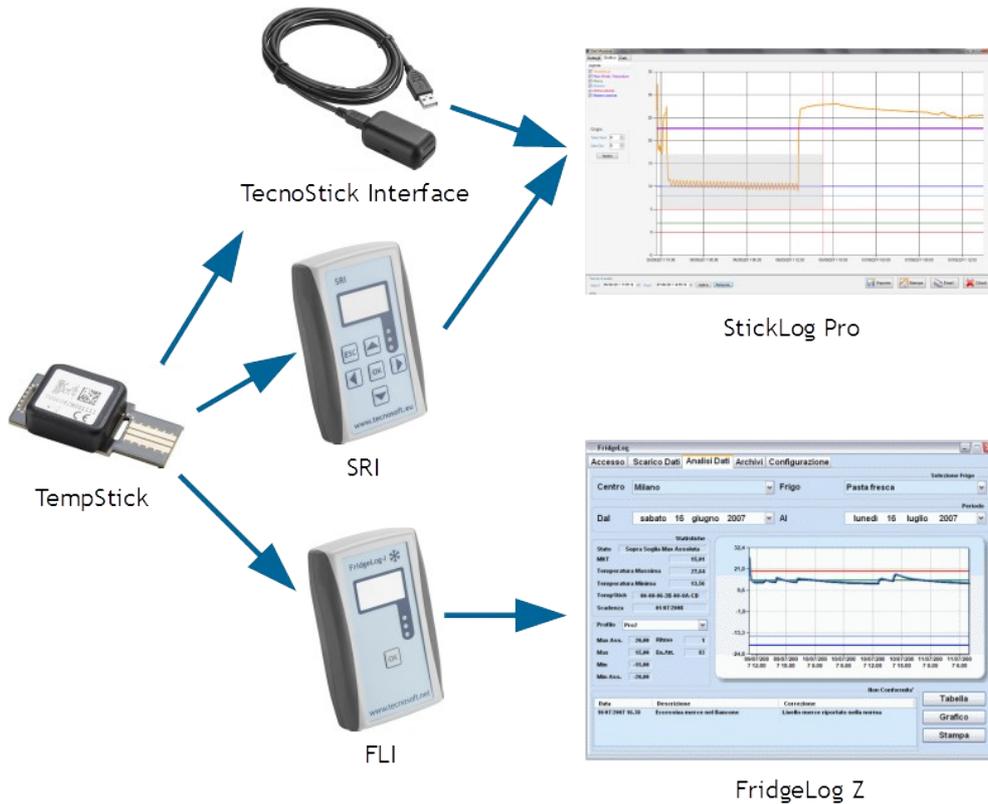| TS01EXCALHT21	RECALIBRATION ON EXTRA POINT VERY HIGH TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.
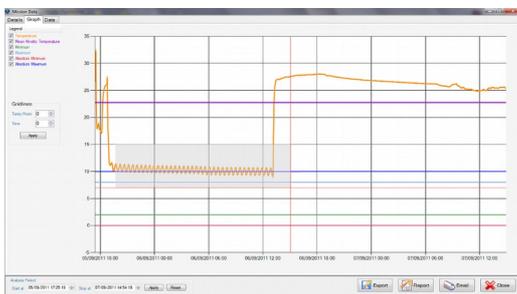
Requested accessories

In order to use TempSticks Probe both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

TempStick accessories

Two software, StickLog Pro and FridgeLog Z, that manage data in different way, and different interfaces support TempSticks, according to various applications and needs. Following you can see the systems configuration chart and interfaces supported by each software.

TecnoStick Interface

SRI

TempStick

FLI

StickLog Pro

FridgeLog Z

StickLog Pro – Management software for TempStick and HumiStick, supports TecnoStick Interface and SRI. Data are saved per "mission" identified by a starting and ending time of the acquisitions and each mission is a record in the database.

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by starting date and logger serial number
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01SLP	SOFTWARE STICKLOG PRO	Call €

TecnoStick Interface – TempStick and HumiStick interface, supported by StickLog Pro software, connected to the PC via USB cable (included). It is necessary to bring the loggers to the PC and interface to be able to program and download them.

Managed data loggers	TempStick, HumiStick
Software	StickLog Pro
Connection	USB (cable included)

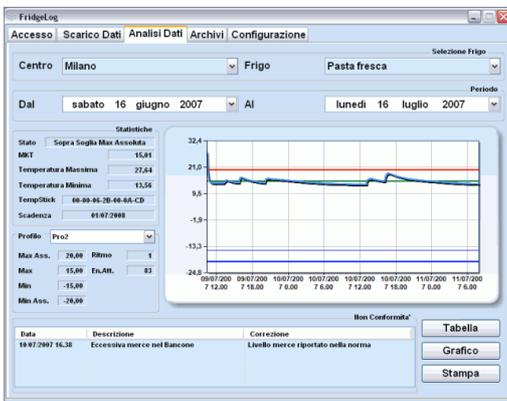| TS04IUSB	TECNOSTICK INTERFACE USB	Call €

SRI – TempStick and HumiStick portable interface, supported by StickLog Pro software, battery operated; connected to the PC via USB cable (included) for configuration and data download. It is possible to program and download the loggers on site, without removing them from their spot and immediately know if recordings are within limits, thanks to the interface display.

Managed data loggers	TempStick, HumiStick
Software	StickLog Pro
Connection	USB (cable included)
Features	6 buttons, display, status and low battery LEDs, can be configured with endless programming profiles, all data can be seen on the display in graph and tabular form, MKT calculation
Memory	More than 300 complete missions (data logger with memory full)
Batteries	2 X 1,5 V AA

TS04SRI	SRI	Call €

FridgeLog Z – TempStick, HumiStick, DLHT (call for availability) and ZED radio sensors management software, supports FLI (TempStick, HumiStick) and Syrinx (ZED). Data are are saved as "monitoring point" connected to a single sensor and all data downloaded from that sensor are archived in a single monitoring point (a fridge, a spot in the room etc.).

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Continuous monitoring sorted by monitoring point with data append
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01FRLZ	FRIDGELOG Z	Call €

FLI – TempStick and HumiStick portable interface, supported by FridgeLog Z software, battery operated; connected to the PC via USB cable (included) for configuration and data download. It is possible to program and download the loggers on site with a simple single operation, without removing them from their spot and immediately know if recordings are within limits, thanks to the interface display.

Managed data loggers	TempStick, HumiStick
Software	FridgeLog Z
Connection	USB (cable included)
Features	1 button, display, status and low battery LEDs, can be configured with 1 programming profile, MKT calculation
Memory	More than 300 complete missions (data logger with memory full)
Batteries	2 X 1,5 V AA

TS01FLI	FLI – PORTABLE INTERFACE	Call €

Clip for TempStick – Clip to enable standby function on TempSticks. Apply the clip within 1 minute from programming to put the logger in a standby mode so that it won't start acquiring. To start acquisitions remove the clip. If clip is applied again logger won't stop recording.

TS04TSCL	TEMPSTICK CLIP FOR STAND BY FUNCTION (20 PZ.)	Call €

TempStick protective envleope – Plastic transparent sealed envelope to protect TempSticks against humidity and condense. Ideal for monitoring in condensing environments like fridges, freezers, fridge cells.

TS04TPB	PROTECTIVE BAG FOR TEMPSTICK (30 PCS.)	Call €

TempStick Probe cable support – Small plastic clip that can be applied to walls with adhesive or a small nail, to hold the 4 mm diameter TempStick Probe cable so that it won't hang about.

TS04PH	PROBE HOLDER FOR 4 mm DIAMETER PROBES (20 PCS.)	Call €

SterilDisk

SterilDisk series features different data loggers versions for temperature up to 140°C, for thermal processes such as sterilisations, pasteurisation, cooking etc. There is a version with internal sensor and other with probe of standard length or flexible probe. It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. With every SterilDisk a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included.**

Temperature range	-20 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,2 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	user replaceable +1.400.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

SterilDisk – Temperature data logger with internal sensor, up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	17,4 h X 36 Ø (mm)
TS01SD	STERILDISK	**Call €**

Tacky thermal pad (10 pieces) – Adhesive tacky thermal pad, can be repositioned, to improve heat conductibility on rough surfaces. Ideal for loggers with no external probe and a flat sensing part, for surface monitoring.

TS17TTP	TACKY THERMAL PAD FOR ROUGH SURFACES (10 PCS.)	**Call €**

SterilDisk Probe 10 – Temperature data logger with 10 mm external probe, up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	17,4 h X 36 Ø (mm)
Probe dimensions	10 l X 4 Ø (mm)
TS01SDP10	STERILDISK PROBE 10	**Call €**

Support for SterilDisk Probe 10 – Special support for the SterilDisk Probe 10 probe, it lets you use it upside down to be able to measure temperature directly in contact with flat surfaces, with a high response time.

TS17DP10H	DISK PROBE 10 HOLDER	**Call €**

SterilDisk Probe 20/50/100/150 – Temperature data logger with 20 or 50 or 100 or 150 mm external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

UP TO 140°C

Dimensions	17,4 h X 36 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20 l X 3 Ø (mm) Probe 50 l X 3 Ø (mm) Probe 100 l X 3 Ø (mm) Probe 150 l X 3 Ø (mm)

TS01SDP20	STERILDISK PROBE 20	**Call €**
TS01SDP50	STERILDISK PROBE 50	**Call €**
TS01SDP100	STERILDISK PROBE 100	**Call €**
TS01SDP150	STERILDISK PROBE 150	**Call €**

SterilDisk Flexible – Temperature data logger with 30 cm flexible cable and 50 mm or on demand rigid probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

UP TO 140°C

Dimensions	17,4 h X 36 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)

TS01SDF3	STERILDISK FLEXIBLE 50	**Call €**
TS01SDFD	STERILDISK FLEXIBLE ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -20 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – SterilDisk battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS01SPDB	BATTERY KIT FOR STERILDISK	**Call €**

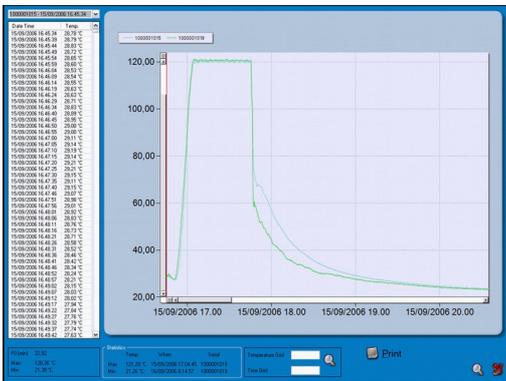|		
TS01SPDB1	BATTERY REPLACE ON STERILDISK	**Call €**

Requested accessories

In order to use SterilDisks both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

SterilDisk accessories

Two software, SPD and TS Manager, and two interfaces support SterilDisks, according to various applications and needs. Following you can see the systems configuration chart.

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS Mini – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

SPD SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro
Software	SPD, TS Manager
Connection	USB (cable included)

TS04DIHSM	DISKINTERFACE HS MINI	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

SPD SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Fixing systems

SterilDisk data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M5 rivets – M5 rivets with 20 pieces package, to be used with fixing kit and PasteurDisk Can and SterilDisk Can threaded probe. 1 package with 20 M5 rivets is included in the fixing kit already.

TS13M5	M 5 RIVETS (20 PCS.)	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

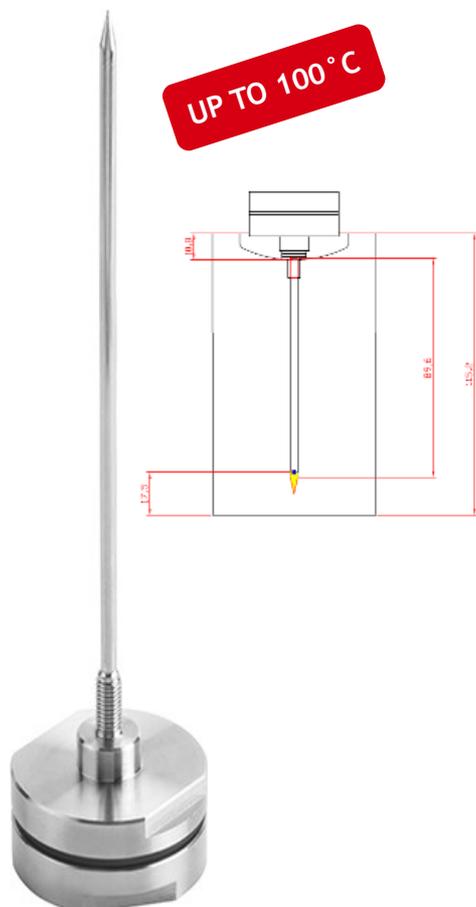| TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

PasteurDisk Can & SterilDisk Can

PasteurDisk Can (up to 100°C) and SterilDisk Can (up to 140°C) features different data loggers versions for temperature dedicated to cans and bottles eventually monitoring. On the body of the standard SterilDisk there is a small base that will fit on the concave bottom of the aluminium cans, on which a hole is made, to let the probe pass through. Along with the three standard lengths, for cold spot temperature monitoring inside the three main can sizes, there is also the probe on demand version First 10 mm of the probes are threaded so that they can be screwed on the M5 rivets (see below) applied on the cans through the Fitting system that allows to fix the pore from the outside of the package, even if it is closed. They require an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. With every SterilDisk a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included.**

PasteurDisk Can – Temperature data logger with 95 or 130 or 148 mm or on demand length external probe (probes cannot be switched) on a 6 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. With every PasteurDisk Can a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100°C).**

Dimensions	17,4 h X 36 Ø (mm)
Probe dimensions	Probe base dimensions 6 h X 12 Ø (mm) Probe 95/130/148 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation) First 10 mm of the prober are threaded with M5 screw pitch
Temperature range	-20 ˚C ÷ +100 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,2 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +1.400.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS01PDDS	PASTEURDISK CAN 95	**Call €**
TS01PDDM	PASTEURDISK CAN 130	**Call €**
TS01PDDL	PASTEURDISK CAN 148	**Call €**
TS01PDDD	PASTEURDISK CAN ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100°C.

TS01PDCE	RECALIBRATION SERVICE FOR 100° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -20 °C ÷ +100 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – PasteurDisk Can battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.
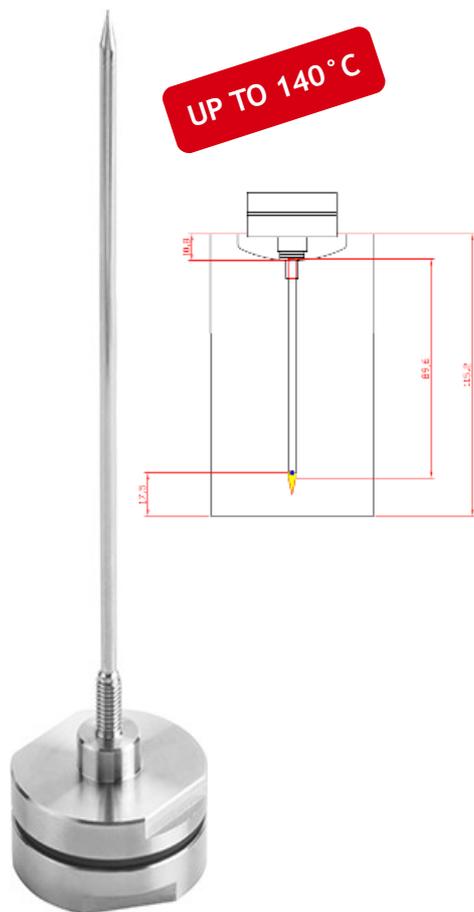
TS01SPDB	BATTERY KIT FOR STERILDISK	**Call €**

TS01SPDB1	BATTERY REPLACE ON STERILDISK	**Call €**

Requested accessories

In order to use PasteurDisks Can both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

SterilDisk Can – Temperature data logger with 95 or 130 or 148 mm or on demand length external probe (probes cannot be switched) on a 6 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. With every SterilDisk Can a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C).**

Dimensions	17,4 h X 36 Ø (mm)
Probe dimensions	Probe base dimensions 6 h X 12 Ø (mm) Probe 95/130/148 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation) First 10 mm of the prober are threaded with M5 screw pitch
Temperature range	-20 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,2 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +1.400.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS01SDDS	STERILDISK CAN 95	**Call €**
TS01SDDM	STERILDISK CAN 130	**Call €**
TS01SDDL	STERILDISK CAN 148	**Call €**
TS01SDDD	STERILDISK CAN ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -20 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – SterilDisk Can battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS01SPDB	BATTERY KIT FOR STERILDISK	**Call €**

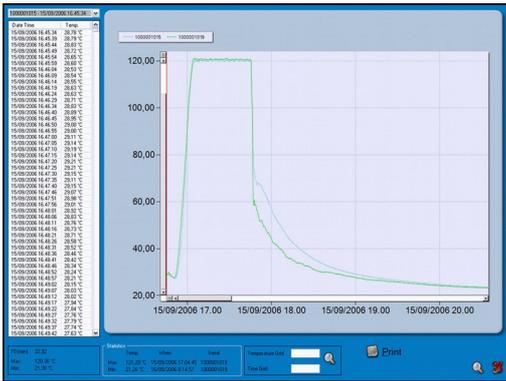|		
TS01SPDB1	BATTERY REPLACE ON STERILDISK	**Call €**

Requested accessories

In order to use SterilDisks Can both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

PasteurDisk Can & SterilDisk Can accessories

Two software, SPD and TS Manager, and two interfaces support PasteurDisks Can and SterilDisks Can, according to various applications and needs. Following you can see the systems configuration chart.

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS Mini – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro
Software	SPD, TS Manager
Connection	USB (cable included)

TS04DIHSM	DISKINTERFACE HS MINI	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Fixing systems

PasteurDisk Can and SterilDisk Can data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M5 rivets – M5 rivets with 20 pieces package, to be used with fixing kit and PasteurDisk Can and SterilDisk Can threaded probe. 1 package with 20 M5 rivets is included in the fixing kit already.

TS13M5	M 5 RIVETS (20 PCS.)	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

P-Micro & S-Micro series

Series is divided in P-Micro (up to 100°C) and S-Micro (up to 140°C) and has different temperature data logger versions with standard length probes or on demand. P-Micro and S-Micro versions are the smallest loggers for such temperatures available on the market. La and XL versions feature a longer life battery and their operative range is extended (can be calibrated from -40°C; standard calibration range is 25 °C ÷ +100 °C for P-Micro and 25 °C ÷ +140 °C for S-Micro). They require an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. **Accredia traceable calibration certificate is included.**

P-Micro – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. With every P-Micro a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100°C).**

UP TO 100°C

Dimensions	14 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	0 °C ÷ +100 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** 560.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS01PM1	P-MICRO 20	Call €
TS01PM2	P-MICRO 50	Call €
TS01PM3	P-MICRO 100	Call €
TS01PM4	P-MICRO 150	Call €
TS01PMD	P-MICRO ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100°C.

TS01PDCE	RECALIBRATION SERVICE FOR 100° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range 0 °C ÷ +100 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – P-Micro battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMB	BATTERY KIT FOR P-MICRO AND S-MICRO	Call €

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	Call €

TS01SPMB1	BATTERY REPLACE ON P-MICRO AND S-MICRO	Call €

Requested accessories

In order to use P-Micro both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

P-Micro L – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100°C)**.

UP TO 100°C

Dimensions	39 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 °C ÷ +100 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +10.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS01PML1	P-MICRO L 20	Call €
TS01PML2	P-MICRO L 50	Call €
TS01PML3	P-MICRO L 100	Call €
TS01PML4	P-MICRO L 150	Call €
TS01PMLD	P-MICRO L ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100°C.

TS01PDCE	RECALIBRATION SERVICE FOR 100° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +100 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – P-Micro L battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMLB	BATTERY KIT FOR P-MICRO L, S-MICRO L, RHTEMP	Call €

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	Call €

TS01SPMLB1	BATTERY REPLACE ON P-MICRO L, S-MICRO L, RHTEMP	Call €

Requested accessories

In order to use P-Micro L both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

P-Micro XL – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100°C)**.

UP TO 100°C

Dimensions	64 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +100 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS01PMXL1	P-MICRO XL 20	Call €
TS01PMXL2	P-MICRO XL 50	Call €
TS01PMXL3	P-MICRO XL 100	Call €
TS01PMXL4	P-MICRO XL 150	Call €
TS01PMXLD	P-MICRO XL ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100°C.

TS01PDCE	RECALIBRATION SERVICE FOR 100° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +100 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – P-Micro XL battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMXLB	BATTERY KIT FOR P-MICRO XL, S-MICRO XL, RHTEMP XL	Call €

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	Call €

TS01SPMXLB1	BATTERY REPLACE ON P-MICRO XL, S-MICRO XL, RHTEMP XL	Call €

Requested accessories

In order to use P-Micro XL both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Micro – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. With proper heat protection and calibration (see further) it is possible to expose them up to 240°C for limited time (the probe only, the device's body is hold in the heat protection). With every S-Micro a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

UP TO 140°C

Dimensions	14 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	0 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** 560.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS01SM1	S-MICRO 20	**Call €**
TS01SM4	S-MICRO 50	**Call €**
TS01SM3	S-MICRO 100	**Call €**
TS01SM5	S-MICRO 150	**Call €**
TS01SMD	S-MICRO ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range 0 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

For calibration up to 240°C, with heat protections, check further

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Micro battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMB	BATTERY KIT FOR P-MICRO AND S-MICRO	**Call €**

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	**Call €**

TS01SPMB1	BATTERY REPLACE ON P-MICRO AND S-MICRO	**Call €**

Requested accessories

In order to use S-Micro both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Micro L – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	39 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +10.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS01SML1	S-MICRO L 20	Call €
TS01SML4	S-MICRO L 50	Call €
TS01SML3	S-MICRO L 100	Call €
TS01SML5	S-MICRO L 150	Call €
TS01SMLD	S-MICRO L ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Micro L battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMLB	BATTERY KIT FOR P-MICRO L, S-MICRO L, RHTEMP	Call €

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	Call €

TS01SPMLB1	BATTERY REPLACE ON P-MICRO L, S-MICRO L, RHTEMP	Call €

Requested accessories

In order to use S-Micro L both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Micro XL – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. With proper heat protection and calibration (see further) it is possible to expose them up to 240°C for limited time (the probe only, the device's body is hold in the heat protection). **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

UP TO 140°C

Dimensions	64 h X 17 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS01SMXL1	S-MICRO XL 20	**Call €**
TS01SMXL4	S-MICRO XL 50	**Call €**
TS01SMXL3	S-MICRO XL 100	**Call €**
TS01SMXL5	S-MICRO XL 150	**Call €**
TS01SMXLD	S-MICRO XL ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

For calibration up to 240°C, with heat protections, check further

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Micro XL battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS01SPMXLB	BATTERY KIT FOR P-MICRO XL, S-MICRO XL, RHTEMP XL	**Call €**

TS17MO	OPENING TOOL FOR LOGGERS MICRO SERIES	**Call €**

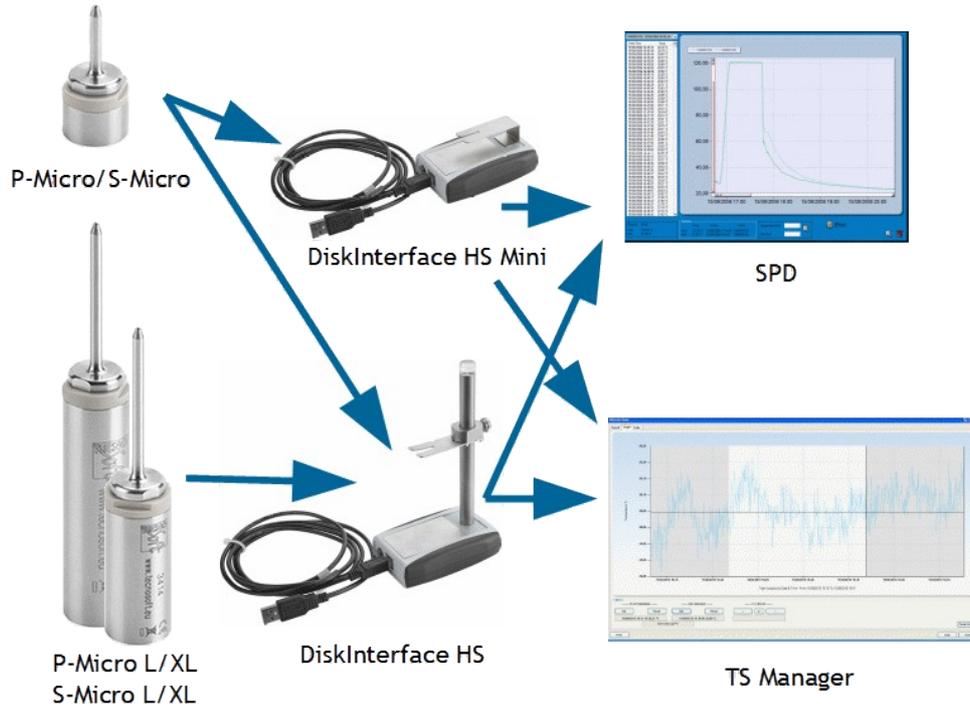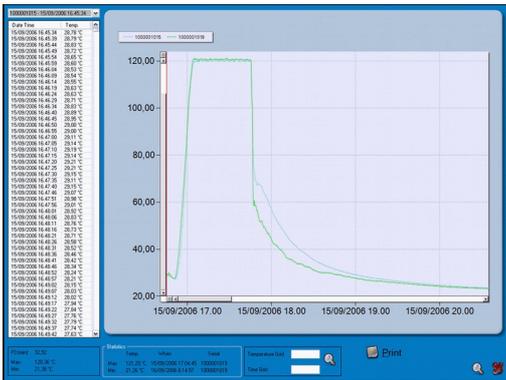|		
TS01SPMXLB1	BATTERY REPLACE ON P-MICRO XL, S-MICRO XL, RHTEMP XL	**Call €**

Requested accessories

In order to use S-Micro XL both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

P-Micro & S-Micro series accessories

Two software, SPD and TS Manager, and two interfaces support P-Micro and S-Micro series data loggers, according to various applications and needs. Following you can see the systems configuration chart.
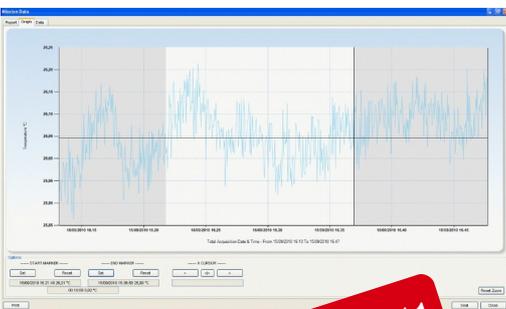

P-Micro/S-Micro
DiskInterface HS Mini
SPD
P-Micro L/XL
S-Micro L/XL
DiskInterface HS
TS Manager

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS Mini – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, P-Micro, S-Micro
Software	SPD, TS Manager
Connection	USB (cable included)

TS04DIHSM	DISKINTERFACE HS MINI	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Fixing systems

P-Micro & S-Micro series data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

Heat protections

Some heat protections for some data logger models to be used at temperatures higher than the max operative one for limited time are available. There are two heat protections for the S-Micro, for temperatures higher than 140°C for different periods and two for the S-Micro XL that can be used in combination (to use the second one you will need the first one too). Max calibration temperature is 240°C and extra calibration points must be purchased.

S-Micro heat protection 1 – Heat protection for S-Micro logger, protects up to 240°C for a maximum of 15 minutes (ask for temperature curve specifics).

Dimensions	39 h X 40 Ø (mm)
Data logger	S-Micro
Minimum probe length	40 mm

TS04MHP1	THERMAL PROTECTION 1 FOR S-MICRO	Call €

S-Micro heat protection 2 – Heat protection for S-Micro logger, protects up to 240°C for a maximum of 35 minutes (ask for temperature curve specifics).

Dimensions	69 h X 66 Ø (mm)
Data logger	S-Micro
Dimensions	50 mm

TS04MHP2	THERMAL PROTECTION 2 FOR S-MICRO	Call €

S-Micro XL heat protection 1 – Heat protection for S-Micro XL logger, protects up to 240°C for a maximum of 20 minutes (ask for temperature curve specifics).

Dimensions	160 h X 37 Ø (mm)
Data logger	S-Micro XL
Dimensions	50 mm

TS04HP1	HEAT PROTECTION 1 FOR S-MICRO XL	Call €

S-Micro XL heat protection 2 – Heat protection for S-Micro XL logger, protects up to 240°C for a maximum of 75 minutes (ask for temperature curve specifics).

Dimensions	190 h X 70 Ø (mm)
Data logger	S-Micro XL
Dimensions	80 mm

TS014HP2	HEAT PROTECTION 2 FOR S-MICRO XL	Call €

Extra calibration points – Extra calibration or recalibration points above maximum operative temperature of 140°C. In the range 1400 °C ÷ 240 °C price is for every data logger.

TS01EXCALHT2	EXTRA CALIBRATION POINT VERY HIGH TEMPERATURE	Call €

TS01EXCALHT21	RECALIBRATION ON EXTRA POINT VERY HIGH TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

S-Disk J

S-Disk J temperature data logger features different versions with probe of standard or on demand lengths, flexible or bendable probe is available. It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. With every SterilDisk a battery kit for battery replacement is included. **Accredia traceable calibration certificate is included.**

S-Disk J – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

FROM -80°C UP TO 140°C

Dimensions	22 h X 30 Ø (mm)
Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	60.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS17SDJ1	S-DISK J 20	**Call €**
TS17SDJ4	S-DISK J 50	**Call €**
TS17SDJ2	S-DISK J 100	**Call €**
TS17SDJ3	S-DISK J 150	**Call €**
TS17SDJD	S-DISK J ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -30 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €). To use the logger from -80°C it is necessary a calibration at least from -40°C. For this use the Ultra-Freeze version is suggested (see further).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Ultra accuracy ± 0,05 °C – When purchasing the logger or ordering recalibration it is possible to ask for the ultra accuracy feature, for an accuracy up to **± 0,05 °C** in the standard calibration 25 °C ÷ +140 °C. Price is intended for each logger.

TS19XA	HIGH ACCURACY CALIBRATION (± 0,05°C)	**Call €**

TS19XA1	HIGH ACCURACY RECALIBRATION SERVICE (± 0,05°C)	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Disk J battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS01SPDJB	BATTERY KIT FOR S-DISK J, L-DISK	**Call €**
TS01SPDJB1	BATTERY REPLACE ON S-DISK J, L.DISK	**Call €**
TS04BRT	OPENING TOOL FOR LOGGERS	**Call €**
TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	**Call €**

Requested accessories

In order to use S-Disk J both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Disk J Flexible – Temperature data logger with 30 cm flexible probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	22 h X 30 Ø (mm)
Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	60.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17SDJF2	S-DISK J FLEXIBLE 50	Call €
TS17SDJFD	S-DISK J FLEXIBLE ON DEMAND	Call €

S-Disk J Bendable – Temperature data logger with 30 cm bendable probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	22 h X 30 Ø (mm)
Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Bendable probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	60.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17SDJB2	S-DISK J BENDABLE 50	Call €
TS17SDJBD	S-DISK J BENDABLE ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +140 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Disk J battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS01SPDJB	BATTERY KIT FOR S-DISK J, L-DISK	**Call €**

TS01SPDJB1	BATTERY REPLACE ON S-DISK J, L.DISK	**Call €**

TS04BRT	OPENING TOOL FOR LOGGERS	**Call €**

TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	**Call €**

Requested accessories

In order to use S-Disk J both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Disk J Ultra Freeze – Temperature data logger with 20 or 100 mm (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), from -80°C up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: -40/-20/0/25/50/75/100/125/140°C)**. With calibration from -40°C it can be used also at -80°C with an accuracy within ± 0,5 °C within range -80 °C ÷ -40 °C. If -80°C is requested to be on the certificate, an extra calibration point for very low temperatures must be purchased.

Dimensions	22 h X 30 Ø (mm)
Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 20/100 l X 3 Ø (mm)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	60.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	user replaceable +8.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS17SDJU1	S-DISK J 20 ULTRA FREEZE (-80°C)	Call €
TS17SDJU2	S-DISK J 100 ULTRA FREEZE (-80°C)	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -80 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +140 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers (points -40/-20/0 already included when purchasing this model).

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Disk J battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS01SPDJB	BATTERY KIT FOR S-DISK J, L-DISK	Call €

TS01SPDJB1	BATTERY REPLACE ON S-DISK J, L.DISK	Call €

TS04BRT	OPENING TOOL FOR LOGGERS	Call €

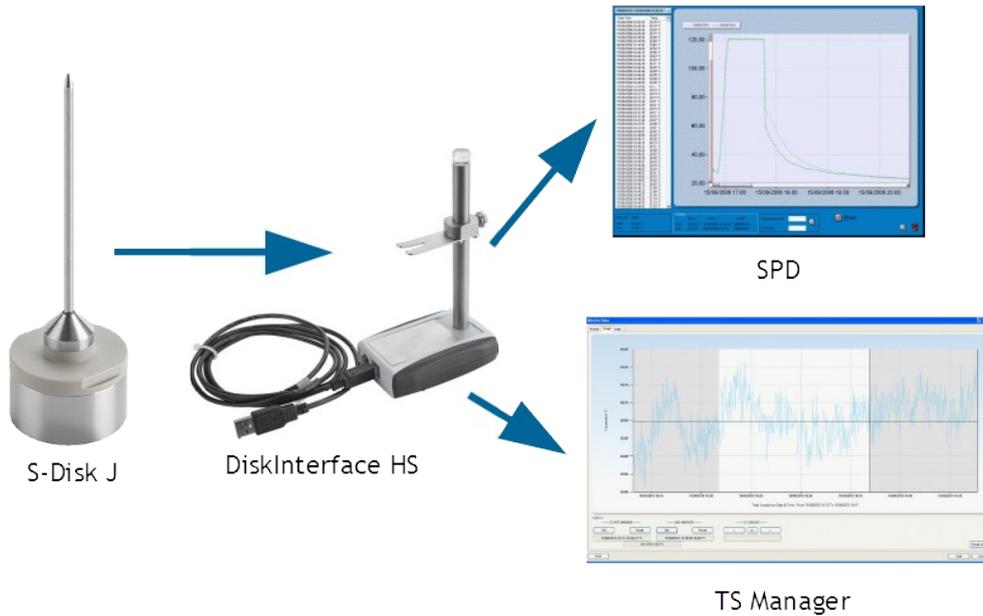| TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	Call €

Note: if used below -30°C, battery life will be highly reduced.
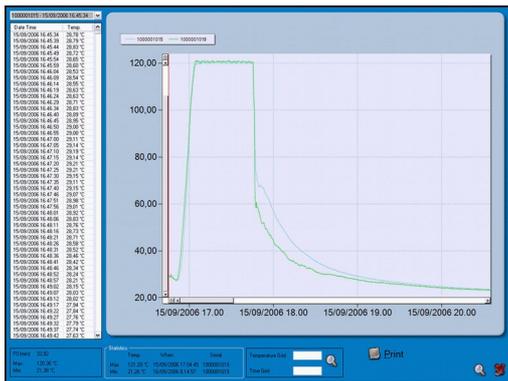
Requested accessories

In order to use S-Disk J both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-Disk J accessories

Two software, SPD and TS Manager, and one interface support S-Disk J, according to various applications and needs. Following you can see the systems configuration chart.

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

SPD SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Fixing systems

S-Disk J data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

S-MicroW

S-MicroW temperature data logger features different versions with probe of standard or on demand lengths, flexible or bendable probe is available. It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. **Accredia traceable calibration certificate is included.**

S-MicroW L – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

FROM -80°C UP TO 140°C

Dimensions	39 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	user replaceable +10.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS18SMWL1	S-MICROW L 20	**Call €**
TS18SMWL2	S-MICROW L 50	**Call €**
TS18SMWL3	S-MICROW L 100	**Call €**
TS18SMWL4	S-MICROW L 150	**Call €**
TS18SMWLD	S-MICROW LON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -30 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €). To use the logger from -80°C it is necessary a calibration at least from -40°C. For this use the Ultra-Freeze version is suggested (see further).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**
TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Ultra accuracy ± 0,05 °C – When purchasing the logger or ordering recalibration it is possible to ask for the ultra accuracy feature, for an accuracy up to ± 0,05 °C in the standard calibration 25 °C ÷ +140 °C. Price is intended for each logger.

TS19XA	HIGH ACCURACY CALIBRATION (± 0,05°C)	**Call €**
TS19XA1	HIGH ACCURACY RECALIBRATION SERVICE (± 0,05°C)	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW L battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWLBK	BATTERY KIT FOR S-MICROW L	**Call €**
TS18SMWLBK1	BATTERY REPLACE ON S-MICROW L	**Call €**

Requested accessories

In order to use S-MicroW L both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW L Flexible – Temperature data logger with 30 cm felxible probe and 50 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	39 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +10.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS18SMWLF2	S-MICROW L FLEXIBLE 50	**Call €**
TS18SMWLFD	S-MICROW L FLEXIBLE ON DEMAND	**Call €**

S-MicroW L Bendable – Temperature data logger with 30 cm bendable probe and 50 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	39 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Bendable probe 300 l X 2 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +10.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS18SMWLB1	S-MICROW L BENDABLE 50	**Call €**
TS18SMWLBD	S-MICROW L BENDABLE ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +140 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW L battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWLBK	BATTERY KIT FOR S-MICROW L	**Call €**

TS18SMWLBK1	BATTERY REPLACE ON S-MICROW L	**Call €**

Requested accessories

In order to use S-MicroW L both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW L Ultra Freeze – Temperature data logger with 20 or 100 mm (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), from -80°C up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: -40/-20/0/25/50/75/100/125/140°C)**. With calibration from -40°C it can be used also at -80°C with an accuracy within ± 0,5 °C within range -80 °C ÷ -40 °C. If -80°C is requested to be on the certificate, an extra calibration point for very low temperatures must be purchased.

CALIBRATED FOR -80°C

Dimensions	39 h X 20 (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/100 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +10.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS18SMWLU1	S-MICROW L 20 ULTRA FREEZE (-80°C)	**Call €**
TS18SMWLU2	S-MICROW L 100 ULTRA FREEZE (-80°C)	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -80 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers (points -40/-20/0 already included when purchasing this model).

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW L battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWLBK	BATTERY KIT FOR S-MICROW L	**Call €**

TS18SMWLBK1	BATTERY REPLACE ON S-MICROW L	**Call €**

Note: if used below -30°C, battery life will be highly reduced.

Requested accessories

In order to use S-MicroW L both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW XL – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 5 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

FROM -80°C UP TO 140°C

Dimensions	64 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS18SMWXL1	S-MICROW XL 20	Call €
TS18SMWXL2	S-MICROW XL 50	Call €
TS18SMWXL3	S-MICROW XL 100	Call €
TS18SMWXL4	S-MICROW XL 150	Call €
TS18SMWXLD	S-MICROW XL ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -30 °C ÷ +140 °C, can be purchased. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €). To use the logger from -80°C it is necessary a calibration at least from -40°C. For this use the Ultra-Freeze version is suggested (see further).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Ultra accuracy ± 0,05 °C – When purchasing the logger or ordering recalibration it is possible to ask for the ultra accuracy feature, for an accuracy up to ± 0,05 °C in the standard calibration 25 °C ÷ +140 °C. Price is intended for each logger.

TS19XA	HIGH ACCURACY CALIBRATION (± 0,05°C)	Call €

TS19XA1	HIGH ACCURACY RECALIBRATION SERVICE (± 0,05°C)	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW XL battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWXLBK	BATTERY KIT FOR S-MICROW XL	Call €

TS18SMWXLBK1	BATTERY REPLACE ON S-MICROW XL	Call €

Requested accessories

In order to use S-MicroW XL both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW XL Flexible – Data logger di temperatura con sonda flessibile di 30 cm e probe rigido di 50 mm o a richiesta (i probe non sono intercambiabili) su base di 5 mm (l'altezza della base non è inclusa nella lunghezza della sonda), fino a 140°C, gestito tramite software Windows e base di lettura USB. **Il certificato di calibrazione tracciabile Accredia è incluso (punti di calibrazione standard: 25/50/75/100/125/140°C)**.

Dimensions	69 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS18SMWXLF2	S-MICROW XL FLEXIBLE 50	Call €
TS18SMWXLFD	S-MICROW XL FLEXIBLE ON DEMAND	Call €

S-MicroW L Bendable – Data logger di temperatura con sonda metallica semi rigida pieghevole di 30 cm e probe rigido di 50 mm o a richiesta (i probe non sono intercambiabili) su base di 5 mm (l'altezza della base non è inclusa nella lunghezza della sonda), fino a 140°C, gestito tramite software Windows e base di lettura USB. **Il certificato di calibrazione tracciabile Accredia è incluso (punti di calibrazione standard: 25/50/75/100/125/140°C)**.

Dimensions	69 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Bendable probe 300 l X 2 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-40 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS18SMWXLB1	S-MICROW XL BENDABLE 50	Call €
TS18SMWXLBD	S-MICROW XL BENDABLE ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW XL battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWXLBK	BATTERY KIT FOR S-MICROW XL	**Call €**

TS18SMWXLBK1	BATTERY REPLACE ON S-MICROW XL	**Call €**

Requested accessories

In order to use S-MicroW XL both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW L Ultra Freeze – Temperature data logger with 20 or 100 mm (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), from -80°C up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: -40/-20/0/25/50/75/100/125/140°C)**. With calibration from -40°C it can be used also at -80°C with an accuracy within ± 0,5 °C within range -80 °C ÷ -40 °C. If -80°C is requested to be on the certificate, an extra calibration point for very low temperatures must be purchased.

Dimensions	64 h X 20 Ø (mm)
Probe dimensions	Probe base dimensions 5 h X 14 Ø (mm) Probe 20/100 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
Temperature range	-80 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	20.200
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +17.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS18SMWXLU1	S-MICROW XL 20 ULTRA FREEZE (-80°C)	**Call €**
TS18SMWXLU2	S-MICROW XL 100 ULTRA FREEZE (-80°C)	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -80 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers (points -40/-20/0 already included when purchasing this model).

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-MicroW XL battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS18SMWXLBK	BATTERY KIT FOR S-MICROW XL	**Call €**

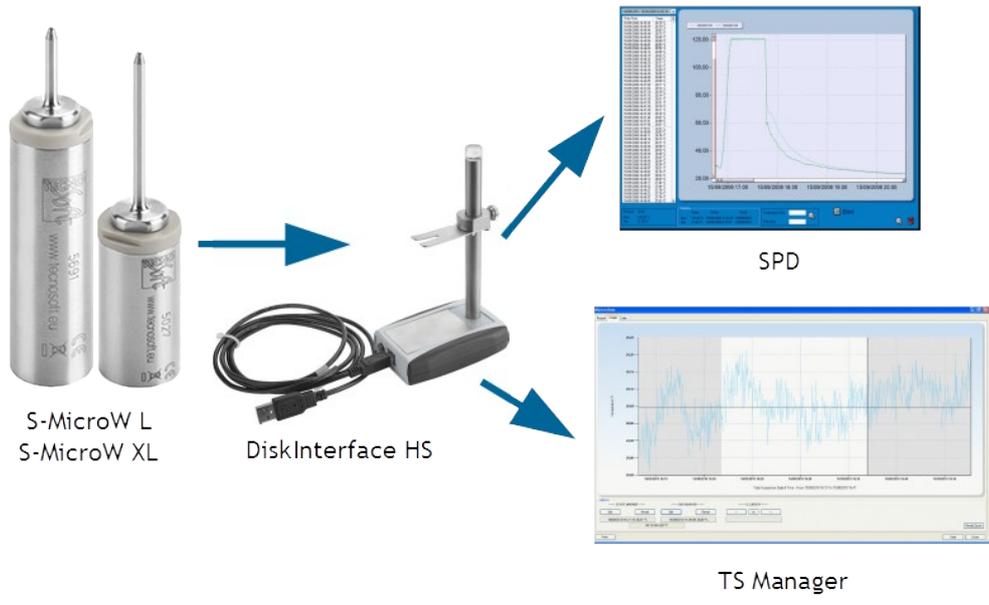|		
TS18SMWXLBK1	BATTERY REPLACE ON S-MICROW XL	**Call €**

Note: if used below -30°C, battery life will be highly reduced.
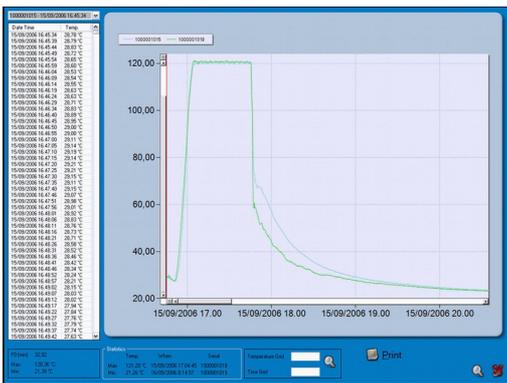
Requested accessories

In order to use S-MicroW XL both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

S-MicroW L & S-MicroW XL accessories

Two software, SPD and TS Manager, and one interface support S-MicroW L and S-MicroW XL, according to various applications and needs. Following you can see the systems configuration chart.
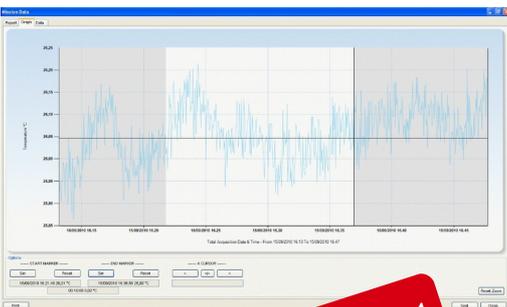

SPD

TS Manager

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Fixing systems

S-MicroW L & S-MicroW XL data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

L-Disk

S-Disk J temperature data logger has the sensing point at the centre of the upper flat surface, for contact monitoring. Standard calibration ranges from -60°C up to 80°C or 140°C, depending on the version, and is studied for lyophilization processes. It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. **Accredia traceable calibration certificate is included.**

L-Disk – Contact temperature data logger from -80°C to 80°C, managed with Windows software and USB interface. 2 tacky thermal pads (35 X 35 mm) to improve heat conductibility on rough surfaces are included. **Accredia traceable calibration certificate is included (calibration standard points: -60/-30/0/40/80°C).**

Dimensions	22 h X 30 Ø (mm)
Temperature range	-80 °C ÷ +80 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	60.600
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

TS17DL	L-DISK	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: -60/-30/0/40/80°C.

TS17DLC	RECALIBRATION SERVICE FOR L-DISK	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -30 °C ÷ +80 °C. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers.

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – L-Disk battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS01SPDJB	BATTERY KIT FOR S-DISK J, L-DISK	Call €

TS01SPDJB1	BATTERY REPLACE ON S-DISK J, L.DISK	Call €

TS04BRT	OPENING TOOL FOR LOGGERS	Call €

TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	Call €

Requested accessories

In order to use L-Disk both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

L-Disk HT – Contact temperature data logger from -80°C to 80°C, managed with Windows software and USB interface. 2 tacky thermal pads (35 X 35 mm) to improve heat conductibility on rough surfaces are included. **Accredia traceable calibration certificate is included (calibration standard points: -60/-30/0/25/50/75/100/125/140°C)**.

Dimensions	22 h X 30 Ø (mm)
Temperature range	-80 ˚C ÷ +140 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	60.600
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17DLHT	L-DISK HT	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: -60/-30/0/25/50/75/100/125/140°C.

TS17DLHTC	RECALIBRATION SERVICE FOR L-DISK HT	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -30 °C ÷ +140 °C. Price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers.

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – L-Disk battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS01SPDJB	BATTERY KIT FOR S-DISK J, L-DISK	Call €

TS01SPDJB1	BATTERY REPLACE ON S-DISK J, L.DISK	Call €

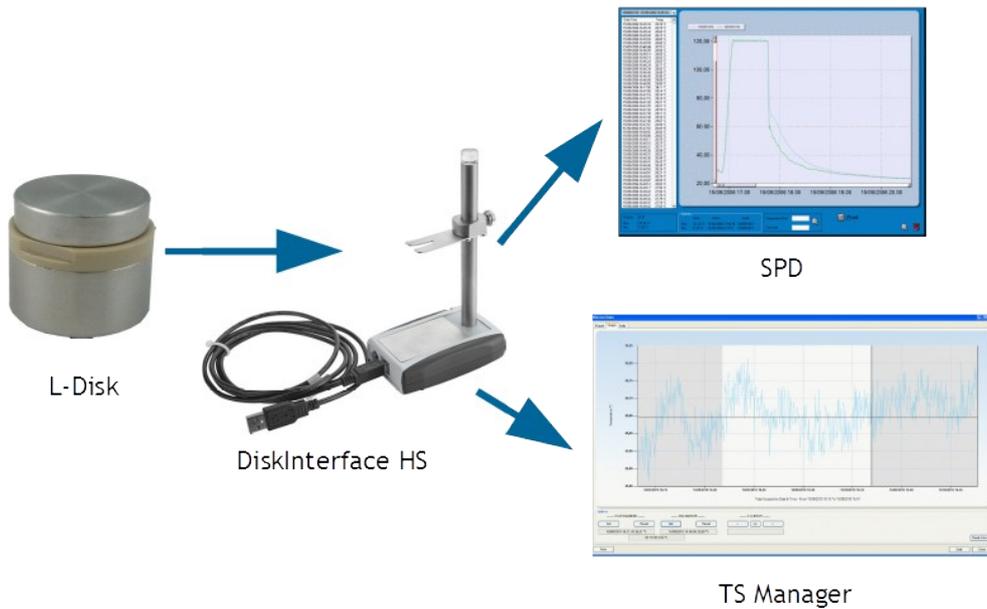| TS04BRT	OPENING TOOL FOR LOGGERS	Call €

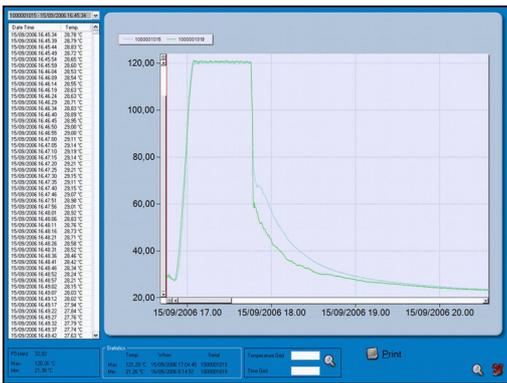| TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	Call €

Requested accessories

In order to use L-Disk HT both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

L-Disk accessories

Two software, SPD and TS Manager, and one interface support L-Disk, according to various applications and needs. Following you can see the systems configuration chart.
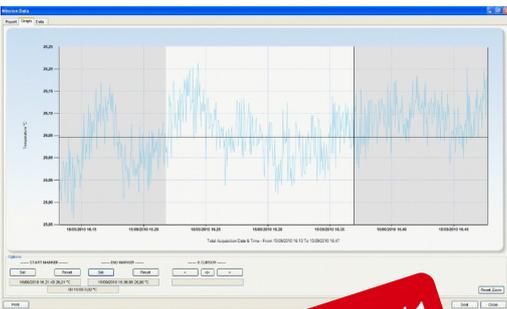

L-Disk

DiskInterface HS

SPD

TS Manager

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	Call €

Tacky thermal pad (10 pieces) – Adhesive tacky thermal pad, can be repositioned, to improve heat conductibility on rough surfaces. Ideal for loggers with no external probe and a flat sensing part, for surface monitoring.

TS17TTP	TACKY THERMAL PAD FOR ROUGH SURFACES (10 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

UMIDITA'

Temperature and humidity monitoring devices and systems in several fields and applications. From warehouses to transport and process monitoring (drying etc.) and mapping: each solution is designed specifically on the different application needs, with dedicated software and accessories.

HumiUSB

HumiUSB – USB temperature and humidity data logger with LEDs for out of limits alarm, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	± 3% RH
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17URH	HUMIUSB	**Call €**

HumiUSB-L – USB temperature and humidity data logger with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	± 3% RH
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17URHL	HUMIUSB-L	**Call €**

HumiUSB-HL – USB temperature and humidity data logger with high accuracy with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

NO ACCESSORY REQUIRED!

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,2 ˚C
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	± 3% RH
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**

TS17UTLE	TEMPUSB-LE	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Temperature calibration/recalibration standard points are: 5/30/50°C. Humidity calibration/recalibration standard points are: 30/50/70%.

TS17URHC	CALIBRATION CERTIFICATE FOR HUMIUSB	Call €

TS17URHC1	RECALIBRATION SERVICE FOR HUMIUSB	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -35 °C ÷ +80 °C and humidity range 10% ÷ 90% RH. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	Call €

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	Call €

TS01EXCALYH	EXTRA CALIBRATION POINT HUMIDITY USB DL	Call €

TS01EXCALYH1	RECALIBRATION ON EXTRA POINT HUMIDITY USB DL	Call €

Software allows recalibration on two points (reference instrument needed).
To be verified with Tecnosoft parameters the loggers must be sent back to Tecnosoft.

HumiPDF

HumiPDF – USB temperature and humidity data logger with LEDs for out of limits alarm, automatically generates a PDF that can be displayed with no particular software (optional Windows software available, downloadable from Tecnosoft website). It is possible to buy separately the calibration certificate.

PDF GENERATED AUTOMATICALLY

NO ACCESSORY REQUIRED!

Dimensions	100 X 19 X 19 (mm)
Temperature range	-40 ˚C ÷ +70 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C (tra -10 ˚C ÷ +40 ˚C)
Humidity range	0% ÷ 99% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 40% a 60%
Memory	60.000
Acquisition rate	From 1 every 30 seconds to 1 every 24 hours
Battery life	Nearly 3 years with 15 minutes acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit)

TS20PH	HUMIPDF	**Call €**

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Temperature calibration/recalibration standard points are: 5/30/50°C. Humidity calibration/recalibration standard points are: 30/50/70%.

TS20PHC	CALIBRATION CERTIFICATE FOR HUMIUSB	**Call €**

TS20PHC1	RECALIBRATION SERVICE FOR HUMIUSB	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -40 °C ÷ +70 °C and humidity range 10% ÷ 90% RH. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	**Call €**

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	**Call €**

TS01EXCALYH	EXTRA CALIBRATION POINT HUMIDITY USB DL	**Call €**

TS01EXCALYH1	RECALIBRATION ON EXTRA POINT HUMIDITY USB DL	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

HumiStick

HumiStick – Temperature and humidity data logger managed with Windows software and USB interface. It is possible to buy separately the calibration certificate.

Dimensions	50 X 22 X 10 hh (mm)
Temperature range	-20 °C ÷ +50 °C
Temperature resolution	0,25 °C
Temperature accuracy	±0,4°C da +5°C a +40°C ±1°C da -20°C a +65°C
Humidity range	5% ÷ 95% (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 20% a 80% ±4% da 5% a 95%
Memory	1.365
Acquisition rate	From 1 every minute to 1 every 255 minutes
Battery life	Up to 10 years or 3 millions of acquisitions

TS03HS	HUMISTICK	**Call €**

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger: in both cases an Accredia traceable certificate will be issued. Temperature calibration/recalibration standard points are: 5/30/50°C. Humidity calibration/recalibration standard points are: 30/50/70%.

TS03HSC	HUMISTICK CALIBRATION CERTIFICATE	**Call €**

TS03HSE	HUMISTICK VERIFICATION OF CALIBRATION SERVICE	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -20 °C ÷ +50 °C and humidity range 10% ÷ 90% RH. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

TS01EXCALH	EXTRA CALIBRATION POINT HUMIDITY	**Call €**

TS01EXCALH1	RECALIBRATION ON EXTRA POINT HUMIDITY	**Call €**

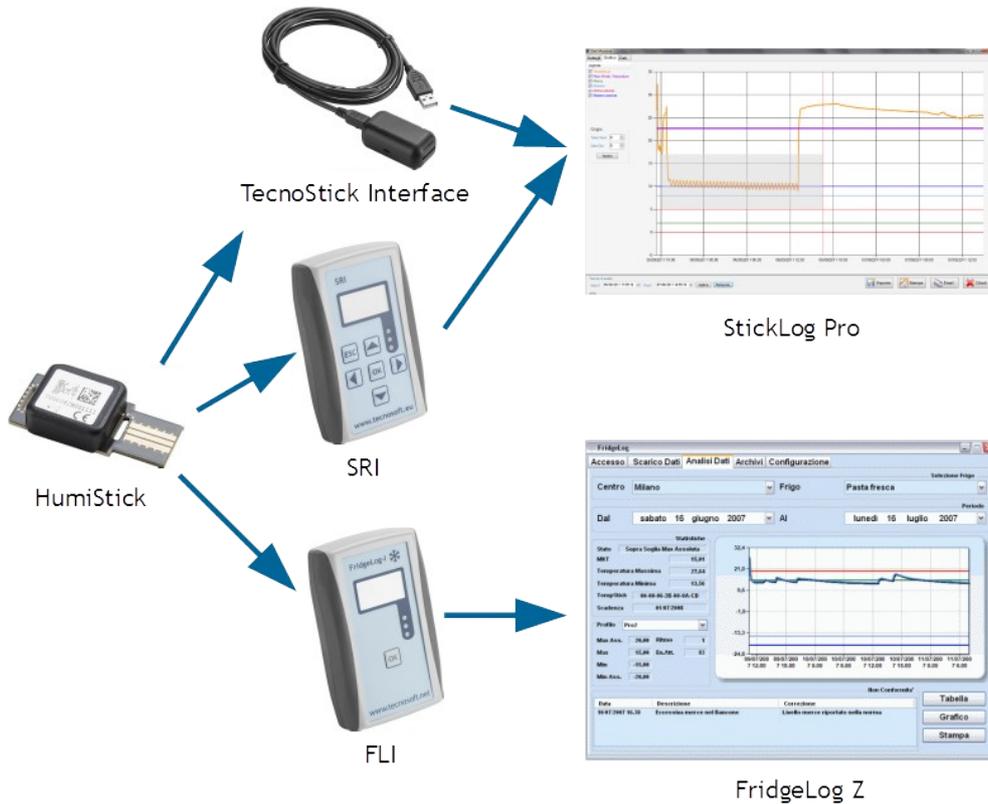To be recalibrated the loggers must be sent back to Tecnosoft.
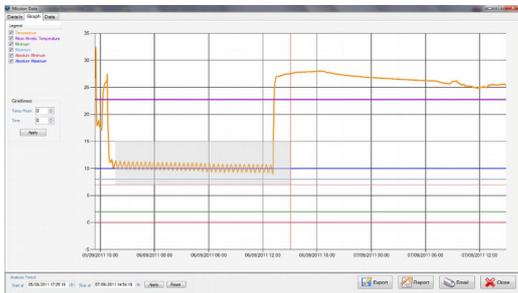
Requested accessories

In order to use HumiSticks both software and interface are needed. There are different models, supported by two different software. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

HumiStick accessories

Two software, StickLog Pro and FridgeLog Z, that manage data in different way, and different interfaces support HumiSticks, according to various applications and needs. Following you can see the systems configuration chart and interfaces supported by each software.

TecnoStick Interface

HumiStick

SRI

FLI

StickLog Pro

FridgeLog Z

StickLog Pro – Management software for TempStick and HumiStick, supports TecnoStick Interface and SRI. Data are saved per "mission" identified by a starting and ending time of the acquisitions and each mission is a record in the database.

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by starting date and logger serial number
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01SLP	SOFTWARE STICKLOG PRO	Call €

TecnoStick Interface – TempStick and HumiStick interface, supported by StickLog Pro software, connected to the PC via USB cable (included). It is necessary to bring the loggers to the PC and interface to be able to program and download them.

Managed data loggers	TempStick, HumiStick
Software	StickLog Pro
Connection	USB (cable included)

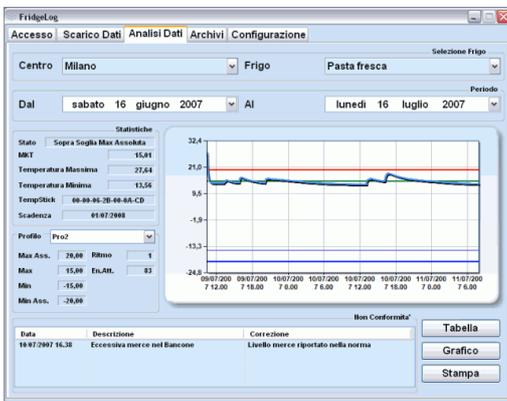| TS04IUSB	TECNOSTICK INTERFACE USB	Call €

SRI – TempStick and HumiStick portable interface, supported by StickLog Pro software, battery operated; connected to the PC via USB cable (included) for configuration and data download. It is possible to program and download the loggers on site, without removing them from their spot and immediately know if recordings are within limits, thanks to the interface display.

Managed data loggers	TempStick, HumiStick
Software	StickLog Pro
Connection	USB (cable included)
Features	6 buttons, display, status and low battery LEDs, can be configured with endless programming profiles, all data can be seen on the display in graph and tabular form, MKT calculation
Memory	More than 300 complete missions (data logger with memory full)
Batteries	2 X 1,5 V AA

TS04SRI	SRI	Call €

FridgeLog Z – TempStick, HumiStick, DLHT (call for availability) and ZED radio sensors management software, supports FLI (TempStick, HumiStick) and Syrinx (ZED). Data are are saved as "monitoring point" connected to a single sensor and all data downloaded from that sensor are archived in a single monitoring point (a fridge, a spot in the room etc.).

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Continuous monitoring sorted by monitoring point with data append
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01FRLZ	FRIDGELOG Z	Call €

FLI – TempStick and HumiStick portable interface, supported by FridgeLog Z software, battery operated; connected to the PC via USB cable (included) for configuration and data download. It is possible to program and download the loggers on site with a simple single operation, without removing them from their spot and immediately know if recordings are within limits, thanks to the interface display.

Managed data loggers	TempStick, HumiStick
Software	FridgeLog Z
Connection	USB (cable included)
Features	1 button, display, status and low battery LEDs, can be configured with 1 programming profile, MKT calculation
Memory	More than 300 complete missions (data logger with memory full)
Batteries	2 X 1,5 V AA

TS01FLI	FLI – PORTABLE INTERFACE	Call €

DLHT

DLHT – Temperature and humidity data logger managed with display and LEDs for out of limits alarm, managed by Windows software. **Accredia traceable calibration certificate is included (calibration standard points: 5/30/50°C; 30/50/70%)**.

Dimensions	6,8 X 11 X 2,7 (cm)
Temperature range	-20 °C ÷ +65 °C
Temperature resolution	0,25 °C
Temperature accuracy	±0,4°C da +5°C a +40°C ±1°C da -20°C a +65°C
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 10% a 90% ±4% da 0% a 100%
Memory	500.000
Acquisition rate	From 1 every 5 seconds up
Display	Show current values and alarms
Battery life	2 AA 1,5 V batteries **user replaceable**

TS08DLHT	DLHT	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Temperature recalibration standard points are: 5/30/50°C. Humidity recalibration standard points are: 30/50/70%.

TS08DLHTE	DLHT VERIFICATION OF CALIBRATION SERVICE	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -20 °C ÷ +65 °C and humidity range 10% ÷ 90% RH. Price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**
TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**
TS01EXCALH	EXTRA CALIBRATION POINT HUMIDITY	**Call €**
TS01EXCALH1	RECALIBRATION ON EXTRA POINT HUMIDITY	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Requested accessories

In order to use DLHTs the software is needed. There are different versions and both include the USB cable (no interface needed). Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

DLHT accessories

Two software, DLHT and FridgeLog Z (call for availability) support DLHT, according to various applications and needs. Software include the cable for the DLHT.
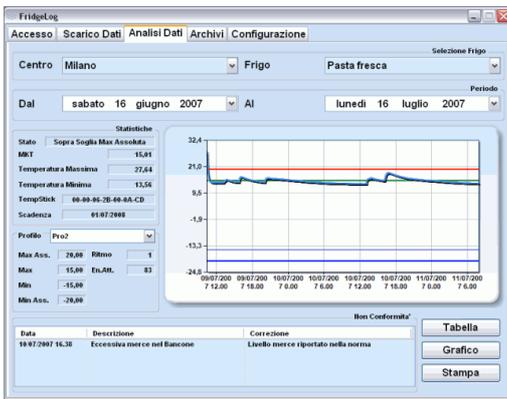
DLHT – DLHT management software. Data are are saved per serial number and are all appended one after the other for each logger.

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Operating systems	Windows XP, Vista, 7, 8, 10 (32 bit)
Data management	Continuous monitoring sorted by monitoring point with data append
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data

TS08DLHTSW	DLHT SOFTWARE	Call €

FridgeLog Z – TempStick, HumiStick, DLHT (call for availability) and ZED radio sensors management software, supports FLI (TempStick, HumiStick) and Syrinx (ZED). Data are are saved as "monitoring point" connected to a single sensor and all data downloaded from that sensor are archived in a single monitoring point (a fridge, a spot in the room etc.).

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Continuous monitoring sorted by monitoring point with data append
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01FRLZ	FRIDGELOG Z	Call €

RHTemp

RHTemp temperature and humidity data logger features different versions, up to 80°C and up to 125°C, with L and XL versions (with different size and battery life). It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. **Accredia traceable calibration certificate is included.**

RHTemp80 models – Temperature and humidity data logger, up to 80°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80°C; 30/50/70%)**.

Temperature range	-40 ˚C ÷ +80 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,015˚C
Temperature accuracy	± 0,2˚C (0˚C ÷ +60˚C) / ± 0,5˚C (-20˚C ÷ +80˚C)
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,02%
Humidity accuracy	± 1,8% (0% ÷ 80%) @23˚C
Memory	10.100
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP67

RHTemp80 L – Temperature and humidity data logger, up to 80°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80°C; 30/50/70%)**.

Dimensions	46 h X 17 Ø (mm)
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17RHT80	RHTEMP80	**Call €**

RHTemp80 XL – Temperature and humidity data logger, up to 80°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80°C; 30/50/70%)**.

Dimensions	71 h X 17 Ø (mm)
Battery life	**user replaceable** +14.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17RHT80XL	RHTEMP80 XL	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Temperature recalibration standard points are: 25/50/80°C. Humidity recalibration standard points are: 30/50/70%.

TS17RHTC	RECALIBRATION SERVICE FOR RHTEMP	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more within the temperature range -40 °C ÷ +80 °C and humidity range 20% ÷ 95%. In the range range -40 °C ÷ +80 °C and humidity range 20% ÷ 95% price is intended for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

TS01EXCALH2	EXTRA CALIBRATION POINT HUMIDITY FOR RHTEMP	**Call €**

TS01EXCALH21	RECALIBRATION ON EXTRA POINT HUMIDITY FOR RHTEMP	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – RHTemp battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS01SPMLB	BATTERY KIT FOR P-MICRO L, S-MICRO L, RHTEMP	Call €

TS01SPMLB1	BATTERY REPLACE ON P-MICRO L, S-MICRO L, RHTEMP	Call €

TS01SPMXLB	BATTERY KIT FOR P-MICRO XL, S-MICRO XL, RHTEMP XL	Call €

TS01SPMXLB1	BATTERY REPLACE ON P-MICRO XL, S-MICRO XL, RHTEMP XL	Call €

Requested accessories

In order to use RHTemps both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

RHTemp125 models – Temperature and humidity data logger, up to 125°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80/125°C; 30/50/70%)**.

Temperature range	-40 ˚C ÷ +125 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,015˚C
Temperature accuracy	± 0,2˚C (0˚C ÷ +60˚C) / ± 0,5˚C (-20˚C ÷ +125˚C)
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,02%
Humidity accuracy	± 1,8% (0% ÷ 85%) / ± 3% (85% ÷ 100%) @23˚C
Memory	10.100
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP67

RHTemp125 L – Temperature and humidity data logger, up to 125°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80/125°C; 30/50/70%)**.

Dimensions	46 h X 17 Ø (mm)
Battery life	**user replaceable** +8.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17RHT125	RHTEMP125	**Call €**

RHTemp125 XL – Temperature and humidity data logger, up to 125°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/80/125°C; 30/50/70%)**.

Dimensions	71 h X 17 Ø (mm)
Battery life	**user replaceable** +14.000.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

TS17RHT125XL	RHTEMP125 XL	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Temperature recalibration standard points are: 25/50/80/125°C. Humidity recalibration standard points are: 30/50/70%.

TS17RHTC	RECALIBRATION SERVICE FOR RHTEMP	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more within the temperature range -4 0 °C ÷ +125 °C and humidity range 20% ÷ 95%. In the range range -40 °C ÷ +125 °C and humidity range 20% ÷ 95% price is intended for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

TS01EXCALH2	EXTRA CALIBRATION POINT HUMIDITY FOR RHTEMP	**Call €**

TS01EXCALH21	RECALIBRATION ON EXTRA POINT HUMIDITY FOR RHTEMP	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – RHTemp battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration.

TS01SPMLB	BATTERY KIT FOR P-MICRO L, S-MICRO L, RHTEMP	**Call €**

TS01SPMLB1	BATTERY REPLACE ON P-MICRO L, S-MICRO L, RHTEMP	**Call €**

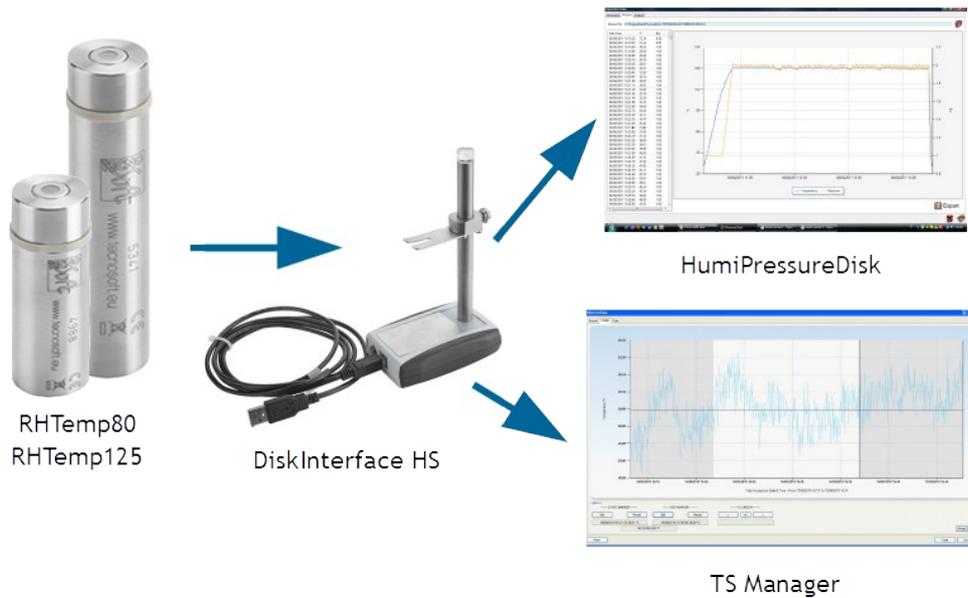| TS01SPMXLB	BATTERY KIT FOR P-MICRO XL, S-MICRO XL, RHTEMP XL	**Call €**

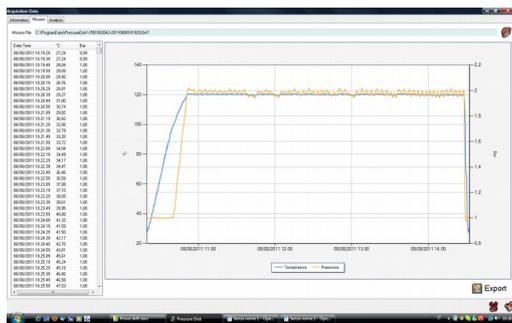| TS01SPMXLB1	BATTERY REPLACE ON P-MICRO XL, S-MICRO XL, RHTEMP XL	**Call €**

Requested accessories

In order to use RHTemps both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

RHTemp accessories

Two software, SPD and TS Manager, and one interface support RHTemp, according to various applications and needs. Following you can see the systems configuration chart.
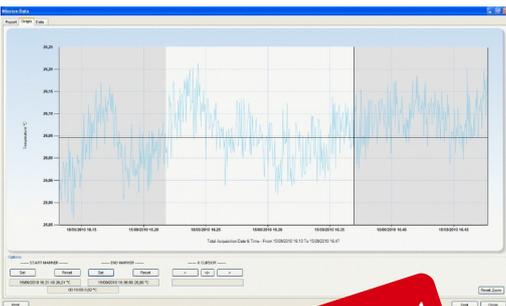

RHTemp80
RHTemp125

DiskInterface HS

HumiPressureDisk

TS Manager

HumiPressureDisk – PressureDisk (all versions), RHTemp (all versions) management software, supports DiskInterface HS. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions saved in files
Data display	Graph (with zoom) and table (exportable into Excel)

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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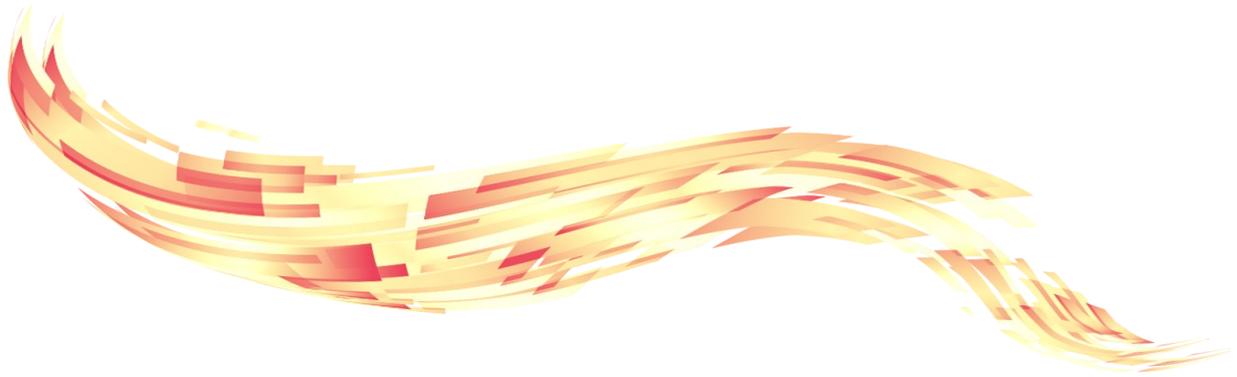| Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

HUMIPRESSUREDISK SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

TS04DIHS	DISKINTERFACE HS	**Call €**

PRESSURE

Pressure monitoring devices and systems for ambient and sterilisation processes. IP68 devices for temperature and pressure or pressure only monitoring both for high pressure up to 5 absolute bar and extreme vacuum.

RHTPUSB

RHTPUSB-L – USB temperature, humidity and pressure data logger with LEDs for out of limits alarm, managed through Windows software downloadable from Tecnosoft website. It is possible to buy separately the calibration certificate.

Dimensions	120 X 37 X 23 (mm)
Temperature range	-35 ˚C ÷ +80 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,3 ˚C
Humidity range	0% ÷ 100% RH (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	± 3% RH
Pressure range	300 mbar ÷ 1100 mbar
Pressure resolution	0.1 mbar
Pressure accuracy	± 1,5 mbar
Memory	32.000
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Visualizzazione temperatura corrente
Battery life	Nearly 2 years with 1 minute acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UTRHPL	RHTPUSB-L	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger (for temperature and humidity only, same codes as HumiUSB): in both cases an Accredia traceable certificate will be issued. Temperature calibration/recalibration standard points are: 5/30/50°C. Humidity calibration/recalibration standard points are: 30/50/70%.

TS17URHC	CALIBRATION CERTIFICATE FOR HUMIUSB	Call €

TS17URHC1	RECALIBRATION SERVICE FOR HUMIUSB	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -35 °C ÷ +80 °C and humidity range 10% ÷ 90% RH. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	Call €

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	Call €

TS01EXCALYH	EXTRA CALIBRATION POINT HUMIDITY USB DL	Call €

TS01EXCALYH1	RECALIBRATION ON EXTRA POINT HUMIDITY USB DL	Call €

Software allows recalibration on two points (reference instrument needed).
To be verified with Tecnosoft parameters the loggers must be sent back to Tecnosoft.

PressPDF

PressPDF – USB temperature, humidity and pressure data logger with LEDs for out of limits alarm, automatically generates a PDF that can be displayed with no particular software (optional Windows software available, downloadable from Tecnosoft website). It is possible to buy separately the calibration certificate.

Dimensions	102 X 20 X 21 (mm)
Temperature range	-40 ˚C ÷ +70 ˚C
Temperature resolution	0,1 ˚C
Temperature accuracy	± 0,5 ˚C (tra -10 ˚C ÷ +40 ˚C)
Humidity range	0% ÷ 99% (non condensing)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 40% a 60%
Pressure range	300 mbar ÷ 1300 mbar
Pressure resolution	0.1 mbar
Pressure accuracy	± 1 mbar (900 mbar ÷ 1100 mbar) / ± 0,5%
Memory	3 X 60.000
Acquisition rate	From 1 every 30 seconds to 1 every 24 hours
Battery life	Nearly 3 years with 15 minutes acquisition step **user replaceable battery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit)

TS20PP	PRESSPDF	Call €

Calibration certificates and recalibration services – It is possible to buy the calibration or the recalibration service for the data logger (for temperature and humidity only, same codes as HumiPDF): in both cases an Accredia traceable certificate will be issued. Temperature calibration/recalibration standard points are: 5/30/50°C. Humidity calibration/recalibration standard points are: 30/50/70%.

TS20PHC	CALIBRATION CERTIFICATE FOR HUMIUSB	Call €

TS20PHC1	RECALIBRATION SERVICE FOR HUMIUSB	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -40 °C ÷ +70 °C and humidity range 10% ÷ 90% RH. Price is intended for every 10 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCALY	EXTRA CALIBRATION POINT TEMPERATURE USB DL	Call €

TS01EXCALY1	RECALIBRATION ON EXTRA POINT TEMPERATURE USB DL	Call €

TS01EXCALYH	EXTRA CALIBRATION POINT HUMIDITY USB DL	Call €

TS01EXCALYH1	RECALIBRATION ON EXTRA POINT HUMIDITY USB DL	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

PressureDisk

PressureDisk temperature and pressure data logger features different versions, up to 80°C and up to 140°C, with pressure only version too. It requires an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. **Accredia traceable calibration certificate is included.**

PressureDisk models – Temperature and pressure data logger, up to 140°C, managed by Windows software and USB interface. **Accredia traceable calibration certificate is included.**

Dimensions	43,22 h X 35 Ø (mm)
Materials	Stainless steel AISI316L, PEEK
Memory	30.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +6.000.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

PressureDisk – Temperature and pressure data logger up to 140°C, with 20 mm radial probe, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C; 10/1k/2k/4k mbar).**

Radial probe dimensions	20 l X 3 Ø (mm)
Temperature range	-40 °C ÷ +140 °C
Temperature resolution	0,02 °C
Temperature accuracy	± 0,1 °C (in the calibration range 25°C ÷ 140°C)
Pressure range	0 bar ÷ 5 bar absolute
Pressure resolution	2 mbar
Pressure accuracy	± 15 mbar

TS13PRD	PRESSUREDISK	Call €

PressureDisk 05 – Pressure data logger up to 140°C, with 20 mm radial probe, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 10/1k/2k/4k mbar).**

Operative temperature range	0 °C ÷ +140 °C
Pressure range	0 bar ÷ 5 bar absolute
Pressure resolution	2 mbar
Pressure accuracy	± 15 mbar

TS13PRD0	PRESSUREDISK 05	Call €

PressureDisk V – Pressure data logger for extreme vacuum, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 10/30/100/300 mbar).**

Operative temperature range	0 °C ÷ +80 °C
Pressure range	0 bar ÷ 1 bar absolute
Pressure resolution	2 mbar
Pressure accuracy	± 10 mbar

TS13PRDV	PRESSUREDISK V	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Temperature recalibration standard points are: 25/50/75/100/125/140°C. Pressure recalibration standard points are: 50/1k/2k/4k mbar absolute (10/30/100/300 mbar for PressureDisk V).

TS13PRDC	RECALIBRATION SERVICE FOR PRESSUREDISK	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C (for PressureDisk only) for temperature and within the range 10 mbar ÷ 5 bar (within the range 10 mbar ÷ 1 bar for PressureDisk V) for pressure, can be purchased. In the range -30 °C ÷ +140 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €). In the range 10 mbar ÷ 5 bar (in the range 10 mbar ÷ 1 bar for PressureDisk V) price is for every 2 data loggers.

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

TS01EXCALP	EXTRA CALIBRATION POINT PRESSURE	Call €

TS01EXCALP1	RECALIBRATION ON EXTRA POINT PRESSURE	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – PressureDisk battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. Opening tools are available too, to be used alone or in combination. If the TS04BRT is used alone, the logger must be put on a vice, if the TS04PRDOP is used alone it is a necessary a tool to unscrew it without damage, if it cannot be opened by hands.

TS13PRDB	BATTERY KIT FOR PRESSUREDISK	Call €

TS13PRDB	BATTERY REPLACE FOR PRESSUREDISK	Call €

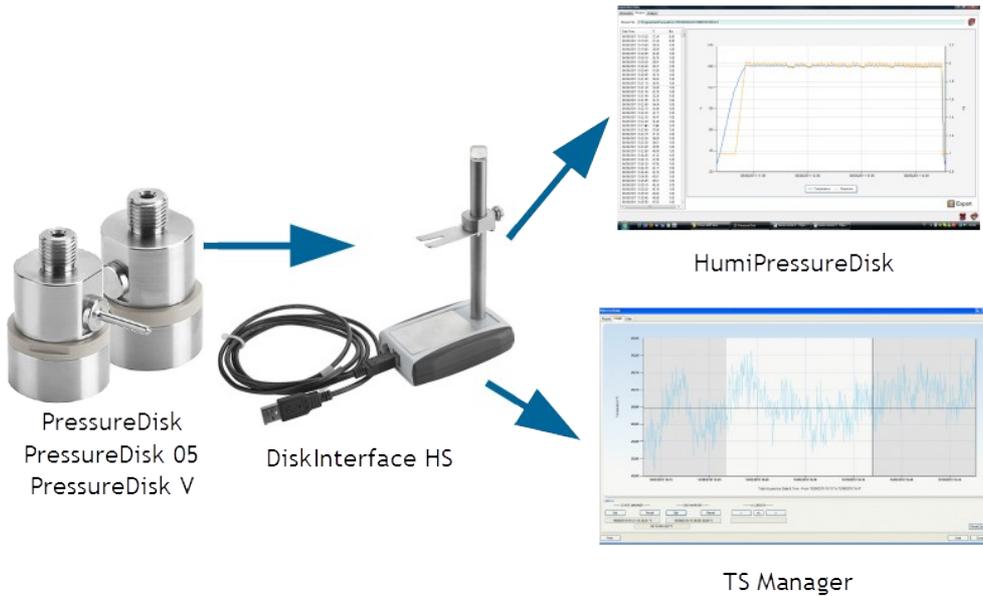| TS04BRT	OPENING TOOL FOR LOGGERS	Call €

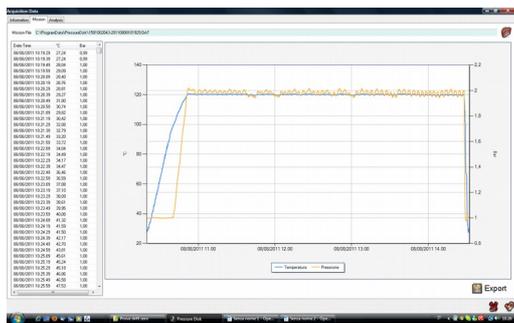| TS04PRDOP	OPENING TOOL FOR S-DISK J, PRESSUREDISK, L-DISK	Call €

Requested accessories

In order to use PressureDisks both software and interface are needed. Furthermore in the catalogue you can choose the software+interface combination that best suits your application.

PressureDisk accessories

Two software, SPD and TS Manager, and one interface support PressureDisk, according to various applications and needs. Following you can see the systems configuration chart.
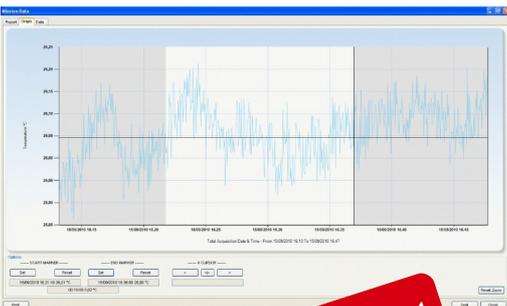

PressureDisk
PressureDisk 05
PressureDisk V

DiskInterface HS

HumiPressureDisk

TS Manager

HumiPressureDisk – PressureDisk (all versions), RHTemp (all versions) management software, supports DiskInterface HS. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions saved in files
Data display	Graph (with zoom) and table (exportable into Excel)

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality valueand the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

HUMIPRESSUREDISK SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

| TS04DIHS	DISKINTERFACE HS	Call €

WIRELESS

Devices and systems with radio data transmission for different fields and many applications. Complete solutions, with remote alarms too, for ambient temperature and humidity monitoring and also in fridges, fridge cells, ultra-freezers and for process temperature monitoring (pasteurisation, sterilisation etc.).

Syrinx

Syrinx is a system for temperature and humidity monitoring in environments such as warehouses, stockhouses, buildings, laboratories, hospitals, museums etc., and fridges, fridge cells, ultra freezers. It is based upon the ZED radio modules that can accept up to two sensors each. These are intelligent sensors, for a quick and easy recalibration: just replace the expiring sensor with a new calibrated one and the system will recognize it and will be automatically calibrated, updating the dates.

Intelligent sensors can be of temperature only or temperature and humidity. It is possible to buy ZED modules with a sensor included and add later another sensor, even of another type, or you can purchase ZED modules with no sensor and add them as you like.

ZED transmit via radio data from the sensors to receivers called EAP (Ethernet Access Point) connected to the network; these send data to a collector called Syrinx that has different models. Data are shown on the FridgeLog Z software installed on one or more PCs.
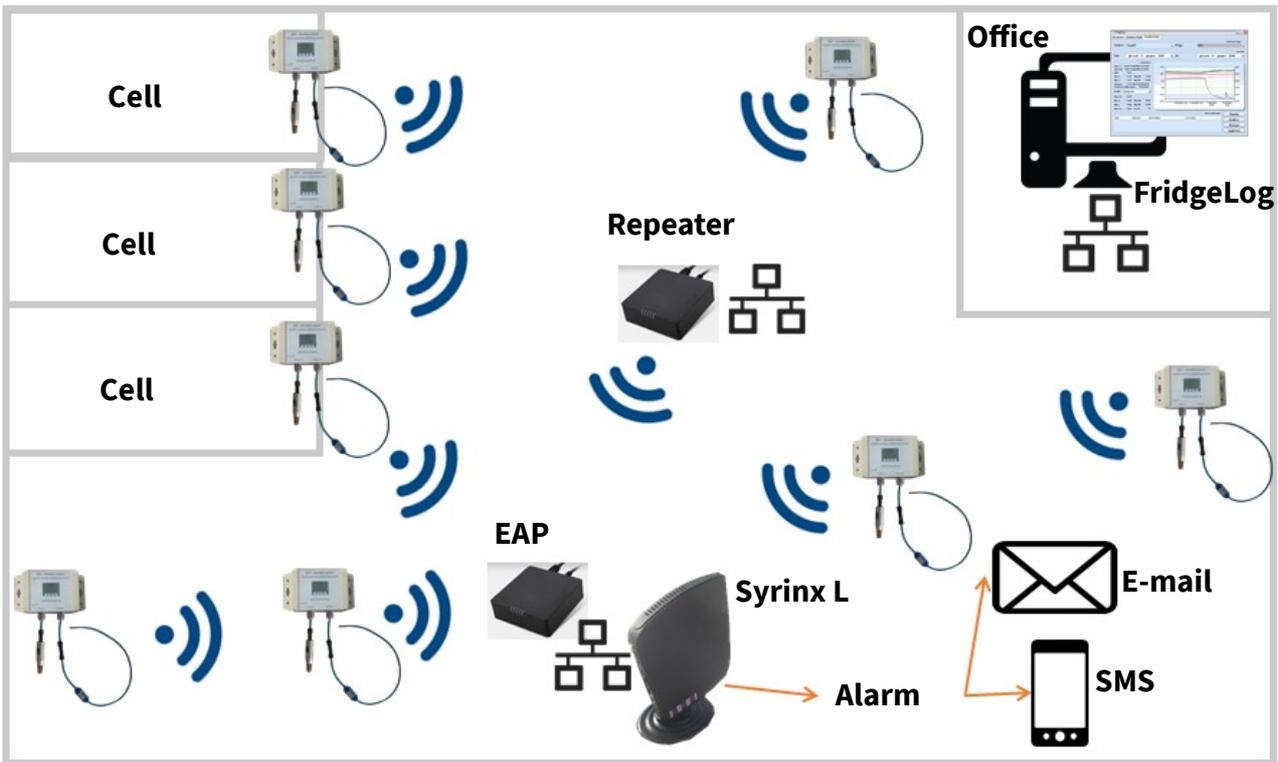
ZED IT – Radio module without intelligent sensors, can accept up to two intelligent sensors among the ones available, in any combination. Has 1 button for ON/OFF and diagnosis. Upon purchase you can add external power and/or display+keyboard modifications. Can be configured (number and type of sensors, radio channel, radio network, repeater function) via USB. See further for available sensors.

Dimensions	6,8 X 11 X 2,7 (cm)
Operative temperature range	-20 ˚C ÷ +50 ˚C
Memory	500.000
Acquisition/transmission rate	Da una ogni 15 secondi in su
Battery	2 AA 1,5 V batteries **user replaceable**
Battery life	Nearly 13 months with 15 minutes transmission step and 2 sensors connected

TS14ZIT	ZED IT	Call €

ZED IT T – Radio module with one temperature standard intelligent sensors, can accept another intelligent sensors of any type, in any combination. Has 1 button for ON/OFF and diagnosis. Upon purchase you can add external power and/or display+keyboard modifications. Can be configured (number and type of sensors, radio channel, radio network, repeater function) via USB. See further for available sensors and costs for extra calibration points. **Accredia traceable calibration certificate is included (calibration standard points: -30/0/25/60°C).**

Intelligent sensor dimensions	cable 500 h X 4 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valid in the calibration range)

TS14ZITT	ZED IT T	Call €

ZED IT T-80 – Radio module with one temperature intelligent sensors for -80°C, can accept another intelligent sensors of any type, in any combination. Has 1 button for ON/OFF and diagnosis. Upon purchase you can add external power and/or display+keyboard modifications. Can be configured (number and type of sensors, radio channel, radio network, repeater function) via USB. See further for available sensors and costs for extra calibration points. **Accredia traceable calibration certificate is included (calibration standard points: -80/-40/0/20°C).**

FROM -80˚C

Intelligent sensor dimensions	cable 500 h X 4 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	-80 ˚C ÷ +20 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,5 ˚C (valid in the calibration range)

TS14ZITT-80	ZED IT T-80	Call €

ZED IT T200 – Radio module with one temperature intelligent sensors up to 200°C, can accept another intelligent sensors of any type, in any combination. Has 1 button for ON/OFF and diagnosis. Upon purchase you can add external power and/or display+keyboard modifications. Can be configured (number and type of sensors, radio channel, radio network, repeater function) via USB. See further for available sensors and costs for extra calibration points. **Accredia traceable calibration certificate is included (calibration standard points: 4 in a 120°C span within the range 0 °C ÷ +200 °C).**

UP TO 200˚C

Intelligent sensor dimensions	cable 500 h X 4 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	0 ˚C ÷ +200 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,5 ˚C (valid in the calibration range . Maximum calibration range: 120˚C span within the range 0 ˚C ÷ +200 ˚C)

TS14ZITT200	ZED IT T200	Call €

ZED IT RH – Radio module with one temperature and humidity intelligent sensors, can accept another intelligent sensors of any type, in any combination. Has 1 button for ON/OFF and diagnosis. Upon purchase you can add external power and/or display+keyboard modifications. Can be configured (number and type of sensors, radio channel, radio network, repeater function) via USB. See further for available sensors and costs for extra calibration points. **Accredia traceable calibration certificate is included (calibration standard points: 5/30/50°C; 30/50/70%).**

Intelligent sensor dimensions	64 h X 16 Ø (mm)
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valida nel range di calibrazione)
Humidity range	0% ÷ 100% (valid in the calibration range)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 10% a 90% ±4% da 0% a 100%

TS14ZITRH	ZED IT RH	**Call €**

ZED accessories and add-on

Some add-ons and accessories for ZED are available, such as the display and external power. These add-ons must be requested upon purchase.

ZED display – ZED LCD display with 4 keys keypad for configuration, diagnosis and current values display.

TS01ZDIS	DISPLAY AND KEYBOARD FOR ZED	**Call €**

ZED repeater – ZED configured as repeater, with no sensors, with power adapter included (modification for external power included).

TS18ZITR	ZED IT REPEATER WITH POWER ADAPTER	**Call €**

ZED IP67 repeater – ZED configured as repeater, with no sensors, with power adapter included (modification for external power included) with IP67 connectors.

TS18ZITR67	ZED IT IP67 REPEATER WITH POWER ADAPTER	**Call €**

External power – ZED modification to connect a power adapter for external power. Batteries work as a backup in case of power loss. This add-on is necessary if you want to configure the ZED as a repeater.

TS16ZEP	ZED EXTERNAL POWER	**Call €**
TS14EXP	ZED POWER ADAPTER	**Call €**

IP67 xternal power – ZED modification to connect a power adapter for external power, with IP67 connectors. Batteries work as a backup in case of power loss. This add-on is necessary if you want to configure the ZED as a repeater.

TS01ZEP67	ZED EXTERNAL POWER IP67	**Call €**
TS14EXP67	ZED POWER ADAPTER IP 67	**Call €**

ZED cable extension – Intelligent sensors have a standard length but it is possible to purchase cable extensions (standard length 2 meters, 4 mm diameter) to be plugged between the ZED and the sensors. Extra meters fro the extension can be also purchased (extra meters must be ordered upon purchase).

TS14ZEXT	ZED IT CABLE EXTENSION (2 METERS)	**Call €**

TS04BU	1 METER BU CABLE	**Call €**

Why use an extension and not make longer cables?
The Intelligent Sensor makes the system immediately recalibrable, simply by substituting the expiring sensor with a calibrated one, without touching the the ZED IT. It is important that all Intelligent Sensors are exactly the same, with the same length. Thanks to the extensions it is possible to place the sensor far from the ZED IT. Moreover, the extension can pass through walls of cells and fridges and so fixed to them, keeping at the same time the easiness of a quick recalibration through the Intelligent Sensors that remain free and can be substituted immediately.

This way of recalibration is impossible with any other wired or wireless monitoring system!

Intelligent sensors

The main feature of the intelligent sensors, used in the Syrinx system and connected to the ZED modules, is the recalibration procedure: easy, quick and not expensive. You won't need to remove the ZEDs IT from their position. You won't need to send the sensors to Tecnosoft for recalibration and therefore remain without monitoring. Before calibration expires order the recalibration service for Intelligent Sensors. You will receive new Sensors to replace the expiring ones that will be sent back to Tecnosoft later on.

RECALIBRATION PROCEDURE WITH THE
INTELLIGENT SENSORS

TEMPERATURE

TEMPERATURE
AND HUMIDITY

30 september: expiration

20 september: receipt of new
calibrated sensors

Disconnect
the expired
sensors

Connect the
calibrated
sensor
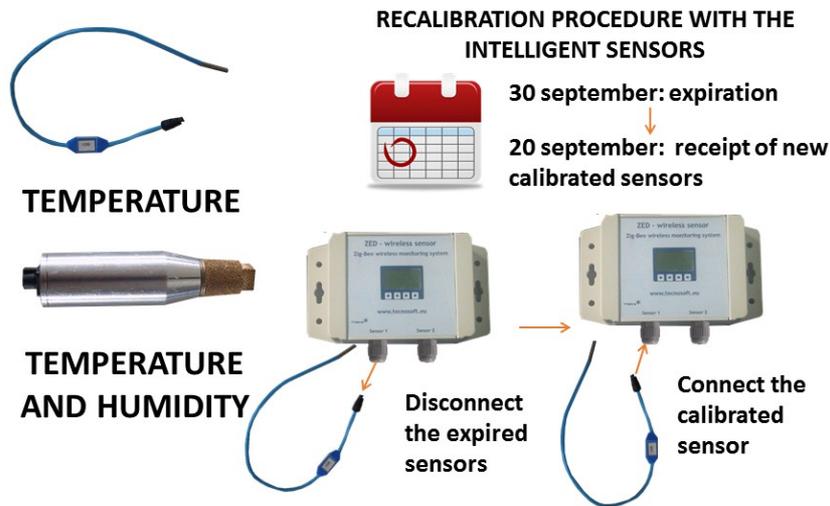
Following there are the prices for new intelligent sensors to be added to ZEDs and the costs for the recalibration service and extra calibration/recalibration points. **Accredia traceable calibration certificate is included**.

Temperature intelligent sensor – Temperature standard intelligent sensors, standard cable length 50 cm, different probes available, cannot be switched; for longer cable length purchase ZED extensions. This sensor is already connected, included in the price, on the ZED IT T.

Intelligent sensor dimensions	cable 500 h X 4 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valid in the calibration range)

TS11ISTBU03	TEMPERATURE INTELLIGENT SENSOR	Call €
TS11ISTBU04	TEMPERATURE INTELLIGENT SENSOR	Call €
TS11ISTBU05	TEMPERATURE INTELLIGENT SENSOR	Call €
TS11ISTBU06	TEMPERATURE INTELLIGENT SENSOR	Call €

Temperature intelligent sensor with thin cable – Temperature standard intelligent sensors, thin cable standard cable length 50 cm, different probes available, cannot be switched; for longer cable length purchase ZED extensions.

Intelligent sensor dimensions	cable 500 h X 2 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valid in the calibration range)

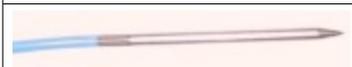| TS11ISTTF03	TEMPERATURE INTELLIGENT SENSOR WITH THIN CABLE	Call €
TS11ISTTF04	TEMPERATURE INTELLIGENT SENSOR WITH THIN CABLE	Call €
TS11ISTTF05	TEMPERATURE INTELLIGENT SENSOR WITH THIN CABLE	Call €
TS11ISTTF06	TEMPERATURE INTELLIGENT SENSOR WITH THIN CABLE	Call €

Cables and probes

Intelligent sensors cable has a standard length of 50 cm. For longer cables the ZED extensions must be purchased (standard length is 2 meters) and extra meters of cable eventually.

TS14ZEXT	ZED IT CABLE EXTENSION (2 METERS)	**Call €**

TS04BU	1 METER BU CABLE	**Call €**

Temperature intelligent sensor may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the recalibration service before the calibration expiration date of the sensor or also after this date. A new calibrated sensor will be sent and must be switched with the expiring one that will be sent back to Tecnosoft.: an Accredia traceable certificate will be issued. Recalibration standard points are: -30/0/20/60°C.

TS11ISTE	TEMPERATURE INTELLIGENT SENSOR RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +80 °C. In the range -30 °C ÷ +80 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

Temperature intelligent sensor -80 – Temperature intelligent sensors from -80°C, thin cable standard cable length 50 cm, different probes available, cannot be switched; for longer cable length purchase ZED extensions. This sensor is already connected, included in the price, on the ZED IT T.-80.

Intelligent sensor dimensions	cable 500 h X 2 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	-80 ˚C ÷ +20 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,5 ˚C (valid in the calibration range)

TS11IST200TF03	TEMPERATURE INTELLIGENT SENSOR 200	**Call €**
TS11IST200TF04	TEMPERATURE INTELLIGENT SENSOR 200	**Call €**
TS11IST200TF05	TEMPERATURE INTELLIGENT SENSOR 200	**Call €**
TS11IST200TF06	TEMPERATURE INTELLIGENT SENSOR 200	**Call €**

Cables and probes
Intelligent sensors cable has a standard length of 50 cm. For longer cables the ZED extensions must be purchased (standard length is 2 meters) and extra meters of cable eventually.

TS14ZEXT	ZED IT CABLE EXTENSION (2 METERS)	**Call €**

TS04BU	1 METER BU CABLE	**Call €**

Temperature intelligent sensor may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the recalibration service before the calibration expiration date of the sensor or also after this date. A new calibrated sensor will be sent and must be switched with the expiring one that will be sent back to Tecnosoft.: an Accredia traceable certificate will be issued. Recalibration standard points are: -30/0/20/60°C.

TS11ISTE	TEMPERATURE INTELLIGENT SENSOR RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range -80 °C ÷ +20 °C. In the range -30 °C ÷ +20 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -80 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

Temperature intelligent sensor 200 – Temperature intelligent sensors up to 200°C, thin cable standard cable length 50 cm, different probes available, cannot be switched; for longer cable length purchase ZED extensions. This sensor is already connected, included in the price, on the ZED IT T200.

Intelligent sensor dimensions	cable 500 h X 2 Ø (mm) probe 30 o 80 l X 3 Ø (mm) pointed or rounded
Sensor temperature range	0 ˚C ÷ +200 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,5 ˚C (valid in the calibration range . Maximum calibration range: 120˚C span within the range 0 ˚C ÷ +200 ˚C)

TS11IST-80TF03	TEMPERATURE INTELLIGENT SENSOR -80	**Call €**
TS11IST-80TF04	TEMPERATURE INTELLIGENT SENSOR -80	**Call €**
TS11IST-80TF05	TEMPERATURE INTELLIGENT SENSOR -80	**Call €**
TS11IST-80TF06	TEMPERATURE INTELLIGENT SENSOR -80	**Call €**

Cables and probes
Intelligent sensors cable has a standard length of 50 cm. For longer cables the ZED extensions must be purchased (standard length is 2 meters) and extra meters of cable eventually.

TS14ZEXT	ZED IT CABLE EXTENSION (2 METERS)	**Call €**

TS04BU	1 METER BU CABLE	**Call €**

Temperature intelligent sensor may be provided with different types of stainless steel probes: short (3 cm) or long (8 cm), for penetration (pointed) or submersion (rounded), identified with a numeric code. Cable standard length is 30 cm and extra meters can be purchased.

	03	3 cm, submersion
	04	8 cm, submersion
	05	3 cm, penetration
	06	8 cm, penetration

Calibration certificates and recalibration services – It is possible to buy the recalibration service before the calibration expiration date of the sensor or also after this date. A new calibrated sensor will be sent and must be switched with the expiring one that will be sent back to Tecnosoft.: an Accredia traceable certificate will be issued. Recalibration standard points are 4 in a 120°C within the range 0 °C ÷ +200 °C. Specify the calibration points before purchase or recalibration.

TS11ISTE	TEMPERATURE INTELLIGENT SENSOR RECALIBRATION	**Call €**

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the range 0 °C ÷ 200 °C. In the range 0 °C ÷ +60 °C price is intended for every 20 data loggers (e. g. one extra point for 20 pieces costs 50,00 €, for 22 100,00 €, 2 extra points for 35 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	**Call €**

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range +60 °C ÷ +200 °C is intended for every 2 loggers:

TS01EXCALHT2	EXTRA CALIBRATION POINT VERY HIGH TEMPERATURE	**Call €**

TS01EXCALHT21	RECALIBRATION ON EXTRA POINT VERY HIGH TEMPERATURE	**Call €**

Temperature and humidity intelligent sensor – Temperature and humidity intelligent sensors, no cable; for longer cable length purchase ZED extensions. This sensor is already connected, included in the price, on the ZED IT RH.

Intelligent sensor dimensions	64 h X 16 Ø (mm)
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,03 ˚C
Temperature accuracy	± 0,25 ˚C (valida nel range di calibrazione)
Humidity range	0% ÷ 100% (non condensante)
Humidity resolution	0,1% RH
Humidity accuracy	±3% da 10% a 90% ±4% da 0% a 100%

TS11ISTH	TEMPERATURE AND HUMIDITY INTELLIGENT SENSOR	Call €

Rotronic Hygroclip temperature and humidity intelligent sensor – Rotronic Hygroclip **t**emperature and humidity intelligent sensors with high accuracy, no cable; for longer cable length purchase ZED extensions.

Intelligent sensor dimensions	83 h X 15 Ø (mm)
Sensor temperature range	-40 ˚C ÷ +80 ˚C
Temperature resolution	0,05 ˚C
Temperature accuracy	± 0,3 ˚C (valida nel range di calibrazione)
Humidity range	0% ÷ 100% (non condensante)
Humidity resolution	0,1% RH
Humidity accuracy	±2%

TS11RH	HYGROCLIP ROTRONIC SENSOR	Call €

Cables
Intelligent sensors of temperature and humidity have no cable: ZED extensions can be purchased (standard length is 2 meters) and extra meters of cable eventually.

TS14ZEXT	ZED IT CABLE EXTENSION (2 METERS)	Call €

TS04BU	1 METER BU CABLE	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service before the calibration expiration date of the sensor or also after this date. A new calibrated sensor will be sent and must be switched with the expiring one that will be sent back to Tecnosoft.: an Accredia traceable certificate will be issued. Temperature recalibration standard points are: 5°C / 30°C / 50°C. Humidity recalibration standard points are: 30% / 50% / 70%.

TS11ISTHE	TEMPERATURE AND HUMIDITY INTELLIG. SENSOR RECALIBRATION	Call €

Extra calibration points – It is possible to buy extra calibration or recalibration points different or more than the standard ones, within the temperature range -20 °C ÷ +50 °C and humidity range 10% ÷ 90% RH. Price is intended for every 20 data loggers (e. g. one extra point for 10 pieces costs 50,00 €, for 12 100,00 €, 2 extra points for 15 200,00 €).

TS01EXCAL	EXTRA CALIBRATION POINT STANDARD TEMPERATURE	Call €

TS01EXCAL1	RECALIBRATION ON EXTRA POINT STANDARD TEMPERATURE	Call €

TS01EXCALH	EXTRA CALIBRATION POINT HUMIDITY	Call €

TS01EXCALH1	RECALIBRATION ON EXTRA POINT HUMIDITY	Call €

Receive data and display them on the Syrinx system

The ZED radio modules send data to the EAP (Ethernet Access Point) receivers connected to the local network and these send data via Ethernet to the collectors called Syrinx. Data are displayed on the FridgeLog Z software that can be installed on more than one PC in the same network as data are shared.

EAP – Ethernet access point, radio receiver for ZEDs. It is possible to connect more than one EAP. Each EAP creates its own radio network and can manage several ZEDs, configured for the same radio network. EAP can work as simple receiver, if not connected to the network.

In the package	Power adapter, network cable
TS14EAP	ETHERNET AP FOR SYRINX SYSTEM	Call €

Syrinx Mini – Syrinx system data collector from EAP, accepts only 1 EAP (for small size installations). Manages data, saves them in a shared folder or internal memory, makes them available for the FridgeLog Z software, manages out of limits alarms. Syrinx Mini may have a different look than the one showed in the picture.

In the package	Power adapter, network cable
Alarms	Email (Internet connection required) SMS (USB modem required)
TS18SYR	SYRINX MINI - WITH LINUX OS	Call €

Syrinx L – Syrinx system data collector from EAP, accepts many EAPs. Manages data, saves them in a shared folder or internal memory, makes them available for the FridgeLog Z software, manages out of limits alarms. Syrinx L may have a different look than the one showed in the picture.

In the package	Power adapter, network cable
Alarms	Email (Internet connection required) SMS (USB modem required)
TS18SYL	SYRINX L - WITH LINUX OS	Call €

Software Desktop – It is possible to order a desktop PC already configured with Syrinx functions and FridgeLog Z software already installed and working, included in the price.

TS14SYDT	SYRINX DESKTOP	Call €

Syrinx software – It is possible to not use the Syrinx and install its software on a server or PC already existing in the network: this PC should stay always on. FridgeLog Z software necessary. Software configuration is not included.

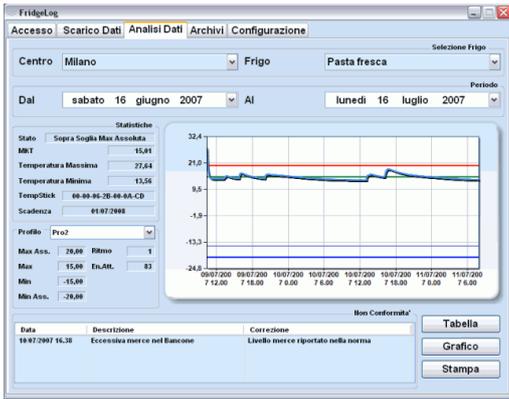| TS18SYSW	SYRINX SOFTWARE	Call €

Alarms

Syrinx systems allows to get out of limits, back into the limits and data loss alarms via email and via SMS. For email alarms Syrinx must be connected to the Internet. For SMS alarms a USB modem must be purchased.

USB modem – USB modem to be connected to the Syrinx to get remote alarms via SMS. SIM not included.

TS14TMOD	USB MODEM FOR SYRINX	Call €

FridgeLog Z – TempStick, HumiStick, DLHT (call for availability) and ZED radio sensors management software, supports FLI (TempStick, HumiStick) and Syrinx (ZED). Data are are saved as "monitoring point" connected to a single sensor and all data downloaded from that sensor are archived in a single monitoring point (a fridge, a spot in the room etc.).

Operating systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Continuous monitoring sorted by monitoring point with data append
Data analysis	Graph (with zoom) and table (exportable into Excel) and report printing with all data
MKT and Parameters	Automatic calculation of the MKT and possibility to set thresholds and validity criteria

TS01FRLZ	FRIDGELOG Z	Call €

Serie P-Radio & S-Radio

Series is divided in P-Radio (up to 100°C) and S-Radio (up to 140°C) and has different temperature data logger versions with standard length probes or on demand. Along with being data loggers the devices transmit dfata via radio for real time monitoring. They require an interface for PC connection: DiskInterface HS or DiskInterface HS Mini. For data receive they require USB Radio Receiver or any other available receiver. They work with SPD or Process Monitor software. **Accredia traceable calibration certificate is included.**

P-Radio – Temperature data logger with external probe on a 10 mm cone base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included.**

Dimensions	76 h X 30 Ø (mm)
Temperature range	-40 ˚C ÷ +100 ˚C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 ˚C
Temperature accuracy	± 0,1 ˚C (valid in the calibration range)
Memory	120.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +3.800.000 acquisitions at 1 second step continuously (calculated time @25˚C. Battery life may be shorter if used in low temperatures)

P-Radio 20/50/100/150 – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C).**

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)

TS01PR1	P-RADIO 20	**Call €**
TS01PR7	P-RADIO 50	**Call €**
TS01PR3	P-RADIO 100	**Call €**
TS01PR8	P-RADIO 150	**Call €**
TS01PRD	P-RADIO SU RICHIESTA	**Call €**

P-Radio 100 / 5 mm – Temperature data logger with 100 mm length external probe, 5 mm diameter on a 10 mm cone base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C).**

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 100 l X 5 Ø (mm)

TS01PR5	P-RADIO 100/5	**Call €**

P-Radio Flexible – Temperature data logger with 30 cm flexible probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)	
TS01PRF6	P-RADIO FLEXIBLE 50	**Call €**
TS01PRFD	P-RADIO FLEXIBLE ON DEMAND	**Call €**

P-Radio Bendable – Temperature data logger with 30 cm bendable probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 100°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Bendable probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)	
TS01PRB2	P-RADIO BENDABLE 50	**Call €**
TS01PRBD	P-RADIO BENDABLE ON DEMAND	**Call €**

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100°C.

TS01PDCE	RECALIBRATION SERVICE FOR 100° OPERATING LOGGERS	**Call €**

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -4 0 °C ÷ +100 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	**Call €**

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	**Call €**

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	**Call €**

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	**Call €**

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – P-Radio battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS10SPCRB	BATTERY KIT FOR P-RADIO AND S-RADIO	**Call €**

TS10SPCRB1	BATTERY REPLACE ON P-RADIO AND S-RADIO	**Call €**

Note: if used below -30°C, battery life will be highly reduced.

Requested accessories

In order to use P-Radios a software, interface and proper receiver are needed. Furthermore in the catalogue you can choose the software+interface+receiver combination that best suits your application.

S-Radio – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Dimensions	76 h X 30 Ø (mm)
Temperature range	-40 °C ÷ +140 °C
Material	Stainless steel AISI316L, PEEK
Temperature resolution	0,01 °C
Temperature accuracy	± 0,1 °C (valid in the calibration range)
Memory	120.000
Acquisition rate	From 1 second up (in steps of 1 second)
Protection degree	IP68
Battery life	**user replaceable** +3.800.000 acquisitions at 1 second step continuously (calculated time @25°C. Battery life may be shorter if used in low temperatures)

S-Radio 20/50/100/150 – Temperature data logger with 20 or 50 or 100 or 150 mm or on demand length external probe (probes cannot be switched) on a 10 mm cone base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 20/50/100/150 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)

TS01SR1	S-RADIO 20	Call €
TS01SR7	S-RADIO 50	Call €
TS01SR3	S-RADIO 100	Call €
TS01SR7	S-RADIO 150	Call €
TS01SRD	S-RADIO ON DEMAND	Call €

S-Radio 100 / 5 mm – Temperature data logger with 100 mm length external probe, 5 mm diameter on a 10 mm cone base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Probe 100 l X 5 Ø (mm)

TS01SR5	S-RADIO 100/5	Call €

S-Radio Flexible – Temperature data logger with 30 cm flexible probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Flexible probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
TS01SRF7	S-RADIO FLEXIBLE 50	Call €
TS01SRFD	S-RADIO FLEXIBLE ON DEMAND	Call €

S-Radio Bendable – Temperature data logger with 30 cm bendable probe and 50 mm or on demand length external probe (probes cannot be switched) on a 10 mm base (base height is not counted for probe length), up to 140°C, managed with Windows software and USB interface. **Accredia traceable calibration certificate is included (calibration standard points: 25/50/75/100/125/140°C)**.

Probe dimensions	Probe base dimensions 10 h X 15 Ø (mm) Bendable probe 300 l X 4 Ø (mm) Probe 50 l X 3 Ø (mm) Probe l on demand X 3 Ø (mm) (l on demand: min. 6 mm / max. 175 mm. For longer probes ask for quotation)
TS01SRB2	S-RADIO BENDABLE 50	Call €
TS01SRBD	S-RADIO BENDABLE ON DEMAND	Call €

Calibration certificates and recalibration services – It is possible to buy the recalibration service for the data logger: an Accredia traceable certificate will be issued. Recalibration standard points are: 25/50/75/100/125/140°C.

TS01SDCE	RECALIBRATION SERVICE FOR 140° OPERATING LOGGERS	Call €

Extra calibration points – Extra calibration or recalibration points different or more than the standard ones, within the range -40 °C ÷ +140 °C, can be purchased. In the range -30 °C ÷ +100 °C price is for every 6 data loggers (e. g. one extra point for 6 pieces costs 50,00 €, for 8 100,00 €, 2 extra points for 11 200,00 €).

TS01EXCALHT	EXTRA CALIBRATION POINT HIGH TEMPERATURE	Call €

TS01EXCALHT1	RECALIBRATION ON EXTRA POINT HIGH TEMPERATURE	Call €

Calibration/recalibration extra points price within the range -40 °C ÷ -30 °C is intended for every 2 loggers:

TS01EXCALUL	EXTRA CALIBRATION POINT ULTRA LOW TEMPERATURE	Call €

TS01EXCALUL1	RECALIBRATION ON EXTRA POINT ULTRA LOW TEMPERATURE	Call €

To be recalibrated the loggers must be sent back to Tecnosoft.

Battery change – S-Radio battery is user easily and quickly user replaceable too. New battery kits can be purchased (each kit includes a new battery, a news o-ring that must always be replaced whenever logger is opened and substitution instructions) or the service for battery replacement at Tecnosoft, usually along with recalibration. An opening tool is available too.

TS10SPCRB	BATTERY KIT FOR P-RADIO AND S-RADIO	Call €

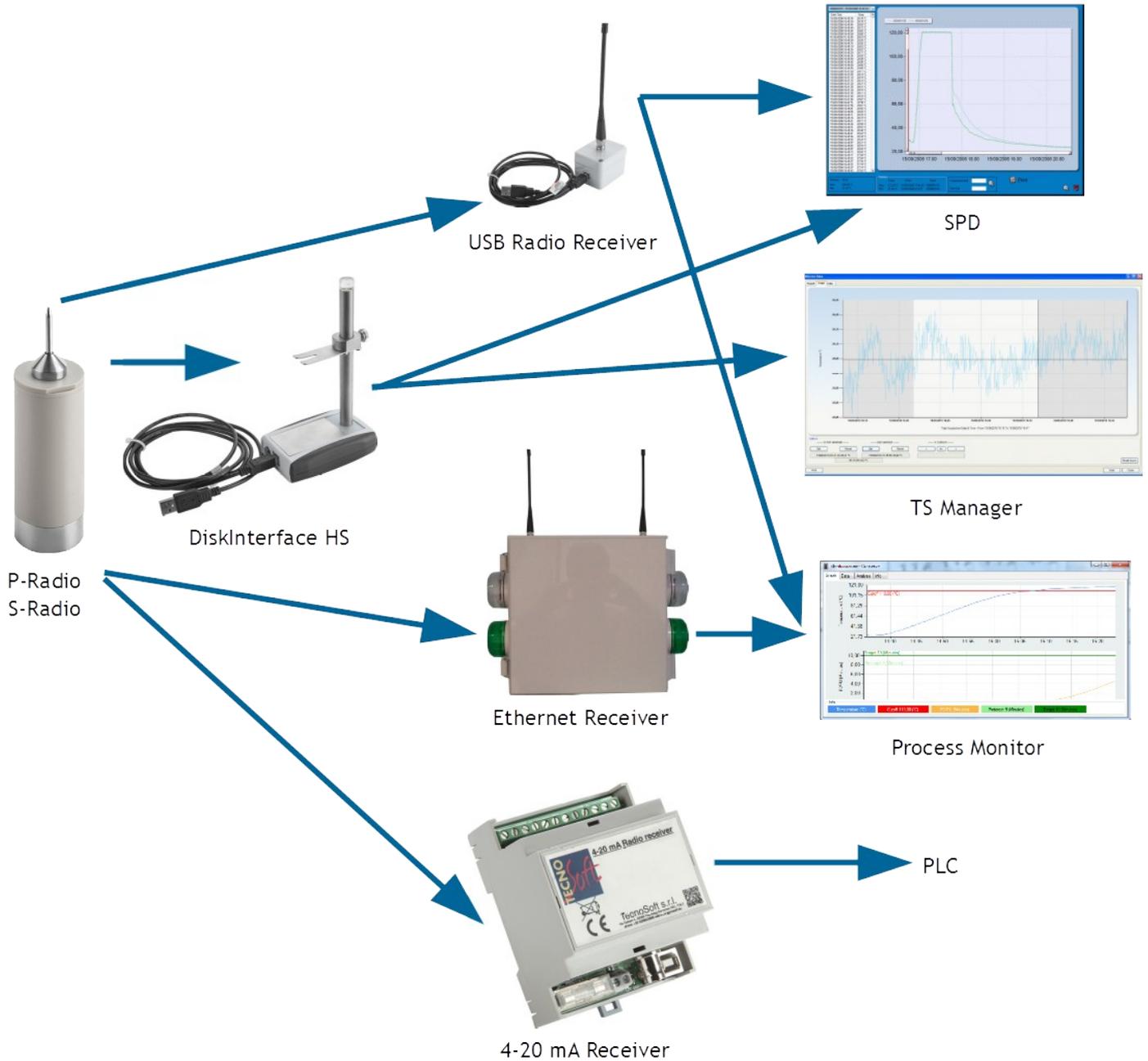| TS10SPCRB1	BATTERY REPLACE ON P-RADIO AND S-RADIO	Call €

Note: if used below -30°C, battery life will be highly reduced.
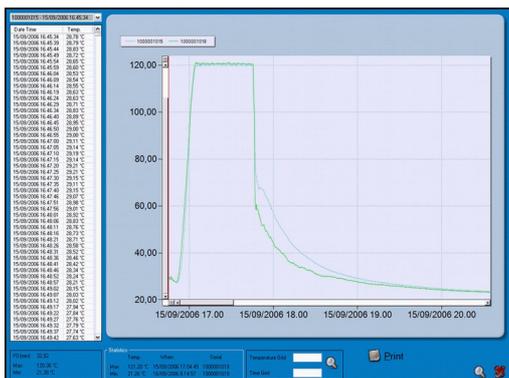
Requested accessories

In order to use S-Radios a software, interface and proper receiver are needed. Furthermore in the catalogue you can choose the software+interface+receiver combination that best suits your application.

P-Radio & S-Radio accessories

P-Radio and S-Radio are supported by SPD, Process Monitor and TS Manager software, one interface and three receivers. Only the SPD and Process Monitor software show data in real time, TS Manager manages them as standard data loggers. A 4-20 mA receiver, to be connected to PLCs, is available. Following you can see the systems configuration chart.

SPD – SterilDisk, PasteurDisk Can, SterilDisk Can, S-Disk J, P-Micro (all versions), S-Micro (all versions), P-Radio, S-Radio, S-MicroW (all versions), L-Disk management software, supports DiskInterface HS Mini, DiskInterface HS and USB Radio Receiver. Downloadable from Tecnosoft website and included with the interfaces.

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

Process Monitor Lite – P-Radio, S-Radio, management software, supports DiskInterface HS and USB Radio Receiver. Accepts more receivers, each receiver only one sensor.
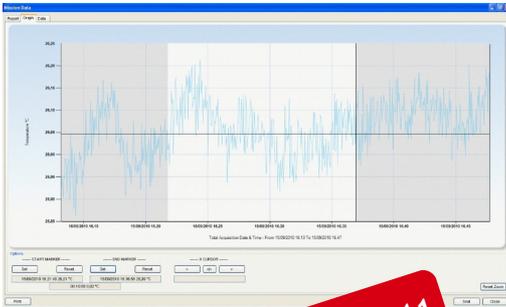

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number. Real time monitoring
Data display	Graph and table (exportable into Excel) and report of all the data printing
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13PML	PROCESS MONITOR LITE	Call €

Process Monitor Pro – P-Radio, S-Radio, management software, supports DiskInterface HS, USB Radio Receiver. And Ethernet receiver. Accepts more receivers, each receiver only one sensor. It is possible to connect the pressure sensor from the machine (ask Tecnosoft for availability).

Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions sorted by start date and logger serial number. Real time monitoring
Data display	Graph and table (exportable into Excel) and report of all the data printing
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13PMP	PROCESS MONITOR PRO	Call €

TS Manager – Validation software compatible with FDA 21 CFR Part 11 regulation, for SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J ((all versions), P-Micro ((all versions), S-Micro ((all versions), P-Radio ((all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, supports DiskInterface HS Mini and DiskInterface HS.

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Operating Systems	Windows XP, Vista, 7, 8, 10 (32, 64 bit)
Data management	Missions filtered by start date, logger type, serial number, customer/instrument validated and much more
Data display	Graph (with zoom) and table (exportable into Excel) and report of all the data printing
Multi-graph display	Two or more missions can displayed on a single graph for comparison
Lethality (F0) and Parameters	Automatically calculates the lethality value and the Z and N parameters of the formula can be set

TS13TSM	TS MANAGER	Call €

DiskInterface HS – SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions) interface, supported by SPD and TS Manager software, connected to the PC via USB cable (included). With status LED.

SPD SOFTWARE INCLUDED

Managed data loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk, RHTemp (all versions), PressureDisk (all versions)
Software	SPD, HumiPressureDisk, TS Manager
Connection	USB (cable included)

| TS04DIHS	DISKINTERFACE HS	Call €

USB Radio Receiver – USB Radio Receiver for P-Radio (all versions), S-Radio (all versions), supported by SPD and Process Monitor software, connected to the PC via USB cable (included).

Data logger received	P-Radio, S-Radio
Software	SPD, Process Monitor
Connection	USB (cable included)

TS04RR	USB RADIO RECEIVER	Call €

Ethernet Receiver – Ethernet Radio Receiver for P-Radio (all versions), S-Radio (all versions), supported by Process Monitor software (Pro version only), connected to the netwrok via Ethernet cable (included). Available withDisponibile con 1 or 2 antennes, to monitor 2 autoclaves simultaneously.
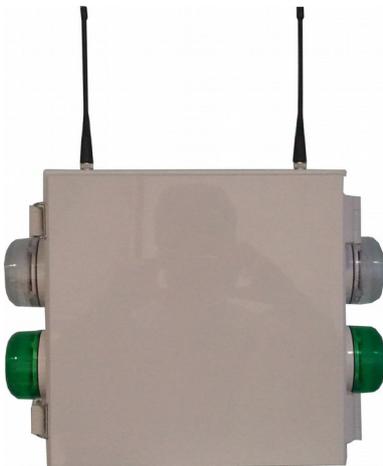
Data logger received	P-Radio, S-Radio
Software	Process Monitor Pro
Connection	Ethernet (cable included)

TS04RETH	ETHERNET RADIO RECEIVER WITH ALARMS – SINGLE	Call €
TS04R2ETH	ETHERNET RADIO RECEIVER WITH ALARMS – DOUBLE	Call €

4-20 mA radio receiver – 4-20 mA adio Receiver for P-Radio (all versions), S-Radio (all versions), can be connected to the machinery's PLC.

Data logger received	P-Radio, S-Radio
Connection	4-20 mA

TS04RX420	4-20 mA RADIO RECEIVER	Call €

Autoclave special antenna – A special antenna to be inserted directly into the autoclave for optimal signal receiving is available. The antenna can be connected to any radio receiver instead of the standard antenna provided.

TS04HTANT	USB RADIO RECEIVER ANTENNA FOR AUTOCLAVE	Call €

Fixing systems

P-Radio & S-Radio data loggers can be easily used for core temperature monitoring in packages, especially for food. By means of different tools it is possible to position and fix the probe to packages and monitor the desired spot always. You can learn more about Tecnosoft fixing systems by watching our YouTube video: https://www.youtube.com/watch?v=spyQtRWSrzc.

Fixing base – Fixing bases with pivots set of 10, 20, 30 and 40 mm length, 1 meter of adhesive rubber for high temperatures. The two bases are screwed on a threaded pivot of proper length for the package in use and the adhesive rubber is applied on both of them, to fix the logger to a base and the other base to the package surface (the walls, the bottom or the cap of the package). Ideal to use the logger inside the packages.

TS13MB	FITTING BASE AND SEPARATORS (INTERNAL USE)	Call €

Fixing kit – Complete kit with riveting tool, 20 M5 rivets (for threaded probe of PasteurDisk Can and SterilDisk Can), 20 M8 rivets (to be used with locking bolt), 1 locking bolt. Fixing kit is particularly useful when the probe must be applied to closed packages, with no possibility to act from the inside. Can be used with 3 mm diameter probes only and at least 20 mm probe length if used with M5 rivets and 30 mm probe length if used with M8 rivets.

TS13KIT	FASTENING SYSTEM FOR PROBES	Call €

Locking bolt – Bolt used to fix and adjust the position of the probe inside of packages. Locking bolt can be used in combination with the fixing kit (1 locking bolt is included in the kit) and M8 rivets or can be used alone, on open packages, with a counter bolt included with it. For 3 mm diameter and 30 mm length probes only.

TS13B	LOCKING NUT	Call €

M8 rivets – M8 rivets with 20 pieces package, to be used with fixing kit and locking bolt. 1 package with 20 M8 rivets is included in the fixing kit already.

TS13M8	M 8 RIVETS (20 PCS.)	Call €

Teflon protective tube – Package with 5 pieces of teflon tube 5 (20 cm length) to protect the 3 mm diameter probes also against heat propagation towards the sensing part of the probe itself.

TS04PP	TEFLON TUBE FOR 3 mm Ø PROBE PROTECTION (20 cm x 5 PCS.)	Call €

VOLTAGE

Devices and systems for voltage monitoring.

VoltUSB

VoltUSB-L – USB voltage data logger with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website.

Dimensions	130 X 37 X 23 (mm)
Reading range	Da 0 a 30 V
Resolution	40 mV
Accuracy	± 1%
Memory	64 Kbytes
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 3 years with 1 minute acquisition step **user replaceable bnattery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UV	VOLTUSB-L	**Call €**

CURRENT

Devices and systems for current monitoring.

CurrUSB

CurrUSB-L – USB 4-20mA current data logger with LEDs for out of limits alarm and display, managed through Windows software downloadable from Tecnosoft website.

Dimensions	130 X 37 X 23 (mm)
Reading range	4 mA ÷ 20 mA
Resolution	0,05 mA
Accuracy	± 1% ± 1 counting
Memory	64 Kbytes
Acquisition rate	From 1 every 2 seconds to 1 every 12 hours
Display	Show current values
Battery life	Nearly 3 years with 1 minute acquisition step **user replaceable bnattery**
Software	Windows XP, Vista, 7, 8, 10 (32, 64 bit) Downloadable from www.tecnosoft.eu

TS17UC	CURRUSB-L	Call €

NO ACCESSORY REQUIRED!

CALIBRATION SYSTEM

Calibration software for high temperature data loggers.

TecnoCalib

Calibration software for high temperature data loggers.

Licence modes	
Licence purchased	Perform all recalibrations you want, all included
Free licence	Pay a fee for each recalibration
Needed instruments	Thermostatic calibration bath, reference thermometer
Supported loggers	SterilDisk (all versions), PasteurDisk Can, SterilDisk Can, S-Disk J (all versions), P-Micro (all versions), S-Micro (all versions), P-Radio (all versions), S-Radio (all versions), S-MicroW (all versions), L-Disk
Supported interfaces	DiskInterface HS, DiskInterface HS Mini

TS13TSCAL	TECNO CALIB	**Call €**

DEVELOPMENT KITS

Kit for development of software and applications interfaced to Tecnosoft systems.

Development kits for Tecnosoft systems

High temperature development kit – The kit includes a DLL in .NET for DiskInterface HS, DiskInterface HS Mini. Lets you communicate with any logger supported by those interfaces. Lets you program the loggers with all possible parameters and download converted and calibrated data. Manual, example software, assistance are included as well.

TS04DEVKIT	TECNOSOFT SYSTEMS DEVELOPMENT KIT	**Call €**

Intelligent sensors development kit– The kit includes a DLL in .NET for intelligent sensors. Lets you communicate with any intelligent sensor and retrieve its data. Manual, example software, 1 temperature intelligent sensor, assistance are included as well.

TS04ITDEVKIT	TECNOSOFT NTELLIGENT SENSORS DEVELOPMENT KIT	**Call €**

TempNFC development kit for Android– The kit includes a jar library for Android to manage the TempNFC data loggers. Lets you program the loggers with all possible parameters and download converted and calibrated data. Manual, example software, 1 TempNFC, assistance are included as well.

TS19NDKA	TEMPNFC DEVELOPMENT KIT FOR ANDROID	**Call €**

TECHNICAL ASSISTANCE

Online and telephone assistance

Tecnosoft provides technical assistance via email.
For technical assistance email at support@tecnosoft.eu. You can fill in the technical assistance request form available on the Tecnosoft website, www.tecnosoft.eu, in the Info&Contacts section.

If you would like to have telephone or online assistance, with remote control of the PC, it is possible to buy assistance vouchers. Filling in the technical assistance request form available on the Tecnosoft website, www.tecnosoft.eu, in the Info&Contacts section, you can provide a phone number to call you back.

TS15TA	TECHNICAL ASSISTANCE BY PHONE - 1 MONTH	Call €
TS17M12	TECHNICAL ASSISTANCE BY PHONE - 1 YEAR	Call €

SALES TERMS

General Sales Terms

The following General Sales Terms must be accepted by the Customer before completing the purchase:

1. Scope
The present General Sales Terms apply to all products sold by Tecnosoft srl.

2. Tecnosoft right of acceptance
Tecnosoft will confirm each order through a communication sent to the Customer. Until then the order will not be binding upon Tecnosoft.

3. Price and terms of payment
The price of the product is that displayed in the offer, quotation, pro-forma invoice, invoice and is VAT excluded and EXW.
The price does not include eventual custom and shipment charges, which must be covered by the buyer.
Payments must be effected according to the agreement between Tecnosoft and the Customer or as expressed in the Offer/Quotation/Pro-Forma Invoice sent by Tecnosoft to the Customer.

4. Delivery
The product will be delivered to the address specified in the order by the Customer within the period agreed by Tecnosoft and the Customer or as specified in the Offer/Quotation/Pro-Forma Invoice from Tecnosoft.
Tecnosoft will not be held responsible for any delays in delivery that are caused by factors beyond their control or by reason of force majeure, including but not limited to, fire, strikes and any other unforeseen event beyond control.

5. Transfer of risk
The inherent product risks are passed on to the customer when the merchandise is handed to the forwarder or freight carrier, if not differently expressly agreed or indicated in the shipment terms.

6. Warranty
Tecnosoft guarantees normal functioning of the product in conformance with the declared technical specifications for a period of 12 (twelve) months starting from the date the product was delivered.
If the buyer notes that a product does not conform to the specifications detailed in the order, whether these are of a qualitative or quantitative nature, then the buyer must notify Tecnosoft within 5 (five) days of their receipt, specifying whether the goods received were defective, of the wrong type, or that more or less products than specified were delivered.
In case of defective products, the type of defect must be specified and Tecnosoft may, at its own discretion, decide whether to repair, replace or refund the product in question.
The repair of a product under guarantee will take place at our works.
The shipment costs of the defective product to and, once the product has been repaired, from Tecnosoft to the buyer will remain at the expense of the buyer.
Any other form of guarantee is excluded. Batteries and mechanical breaks are not covered by warranty.
The Product, if defective, broken or not calibrated may provide incorrect data. The user must set up all the necessary procedures to prevent such errors causing any sort of damage (for example, doubling or tripling the devices, or using also other devices according to the importance of the process).
No implicit or explicit, direct or indirect, compensation will be given for damages resulting from eventual defects or malfunctions of the Products. The Products must not be used for life support systems, aeronautical or space applications.

7. Technical assistance
Technical assistance is provided only by email. For telephone assistance, please require the Telephone Assistance by Phone voucher when purchasing your product. Technical assistance will only cover issues not covered by the end user manuals.

8. Intellectual property rights
All intellectual property rights related to the product and to the software that controls the product (hereinafter referred to as "Software") are and shall remain the property of Tecnosoft. Tecnosoft will indemnify you against any claim of infringement of Letters Patent, Registered Design, Trade Mark or copyright carried forward by third parties.
The buyer will provide Tecnosoft with the earliest possible notice of any claim being made or action threatened or brought against the buyer.
In this case Tecnosoft may, at its own discretion:
Obtain, at its own expense, the right on behalf of the buyer to continue to use the supplied products, or;
Modify the products such that they no longer violate the rights of third parties.
Tecnosoft grants the buyer with a license to use and undertake to use the Software only on the goods supplied. The buyer shall therefore undertake not to copy, translate, adapt, diffuse, alter or modify the Software and that presides over the functioning of the product.
Any use not explicitly authorized by Tecnosoft under the present contract is illegal in conformity with article 64 bis in accordance with law 633 of 1941, as well as any disassembly or decompilation not explicitly authorized.

9. Export restrictions
The sold product includes technologies and Software that are subject to USA and European Union export regulations as well as those in those countries where the product is consigned or used. The buyer shall undertake not to export or re-export the product to any country or end user upon which restrictions or embargo's are in force without prior consent of the ruling countries of the USA or European Union and to abide by the laws that may come up from time to time.

10. Jurisdiction
The contract shall be governed by Italian law and will be subject to the exclusive jurisdiction of the foro of Milan. Application of the Vienna convention on the international sale of goods is excluded.

11. Communication between parties
Communication between parties is to be held in writing and sent to the respective legal addresses.

12. Non-Transferability of rights
The buyer cannot transfer the rights derived by the present contract to third parties.

13. Entire Agreement
This contract constitutes the entire agreement between parties and supercedes any precedent written or verbal contract stipulated between the parties on the items mentioned in this contract.

14. Provisions

If any of the provisions of these conditions are found to be illegal, null or unenforceable, this provision will not be considered and will not affect the validity of the other provisions in this contract.

---- END----

The following information must be noted.

Shipping costs are always at Customers expenses, unless differently agreed.
Note: if you want to use your forwarding agent, please specify.

Warranty: units are guaranteed for 1 year from invoice date. Defective items are to be returned to Tecnosoft s.r.l. Shipping costs are not refundable.

Calibration certificates: Accredia is Italian reference, equivalent to NIST, UKAS and other reference institutes in other countries.

Prices are VAT excluded when applicable; prices are expressed in euro and EXW.
Prices may vary: whenever possible Tecnosoft will inform of any change on time.
Delivery time to be agreed for each order.

Minimum order: 100,00 €. For order less than 100,00 € an extra cost of 20,00 € for administrative management is applied.

For extra EU countries, for payments by credit card, an extra 3% cost is applied.

Technical features: systems, devices, software and the accessories are kept updated. Features may vary any time and without notice. You are invited to ask for features confirmation in regards to your specific application in advance.

To read Tecnosoft s.r.l. contract terms, please visit the web page: http://www.tecnosoftdl.eu/public/contract/contract_en.htm.

Your data will be recorded by Tecnosoft s.r.l. exclusively to send you the goods and promotional material requested and eventual other updates on new Tecnosoft systems. Whenever he/she wants, the Customer can ask to stop the information service. To read the Tecnosoft privacy statement please visit the web page http://www.tecnosoftdl.eu/public/contract/privacy_eng.htm.

Tecnosoft srl

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