

## HAND O<sub>2</sub> & FOOD O<sub>2</sub>

Hand O<sub>2</sub> & Food O<sub>2</sub> devices are used for determination of oxygen concentration in headspace in various MAP packaging (MAP - modified atmosphere packaging). Micro - invasive measurements are enabled by optical sensor tips smaller than 140µm.

### Principles

Optical sensors with optical transmitter combined with intelligent software instantly measure the O<sub>2</sub> concentration in very small headspaces.

### Applications:

- 🌿 Pharmacy: O<sub>2</sub> concentration in blisters, vials, tubes, patches, sealed bags, etc;
- 🌿 Food & Beverage: O<sub>2</sub> concentration in coffee, meat, dairy products, all of MAP packaging;
- 🌿 Science: Biotechnology, Micro - respirometry, marine research, R & D.

### Advantages

- 🌿 Measurements in gas or liquid phase;
- 🌿 No sample extraction;
- 🌿 High accuracy and precision;
- 🌿 No O<sub>2</sub> consumption during measurement;
- 🌿 Salinity factor input for different salinity samples in vials;
- 🌿 IQ & OQ Documentation;
- 🌿 Sterilizable;
- 🌿 Calibration is fast and can be performed by user;
- 🌿 Battery or regular power supply.

### Technical specifications

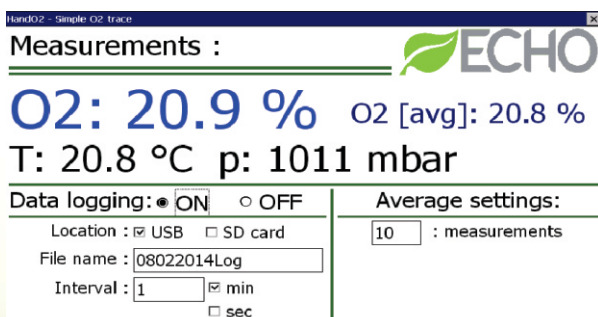
- 🌿 Measuring range: 0-50% or 0-100% O<sub>2</sub>;
- 🌿 Accuracy: +/- 0,4 % at 20,9 % O<sub>2</sub> or +/- 0,05 % at 0,2 % O<sub>2</sub>;
- 🌿 Temperature measurement range: 0-50 °C
- 🌿 Pressure measurement range: 150 mb to 1150 mb;
- 🌿 Response time (t90) < 15 sec;
- 🌿 Cleanable with: 3 % H<sub>2</sub>O<sub>2</sub>, Ethanol, Soap solution;
- 🌿 Calibration: 2 - point calibration, using Nitrogen and Synthetic air;
- 🌿 Dimensions: 180 x 90 x 270 mm, Weight: 1 kg;
- 🌿 Needles with 0,4 mm, 0,8mm, 1,2 mm diameter with various lengths (on demand);
- 🌿 Interface: USB, RS485, Ethernet.



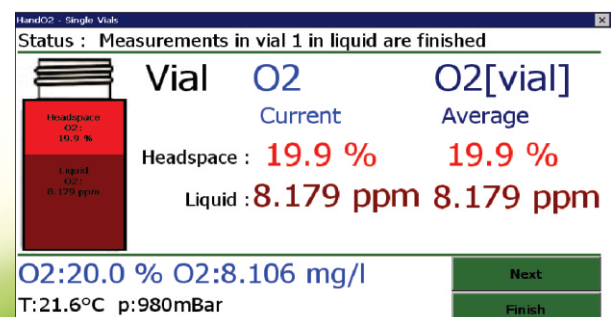
Hand O<sub>2</sub>



Food O<sub>2</sub>



O<sub>2</sub> measuring screen



Vials measuring screen