PORTABLE OXYGEN ANALYZERS IN MAP PACKAGING

HAND O2 & FOOD O2

FOR MAP PACKAGING IN PHARMACEUTICAL AND FOOD & BEVERAGE INDUSTRY

Hand O2 & Food O2 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 140 µm. Devices are compliant with pharmaceutical standards and **21 CFR Part 11.**

Principles

Optical sensors with optical transmitter combined with intelligent software instantly measure the O_2 concentration in very small headspaces.

Applications

- Pharmaceutical: O_2 concentration in blisters, vials, tubes, patches, sealed bags, etc;
- Food & Beverage: O_2 concentration in coffee, meat, dairy products, all MAP packaging;
- Science: Biotechnology, Micro-respirometry, marine research, R & D.

HAND O2

FOOD O2

ECHO

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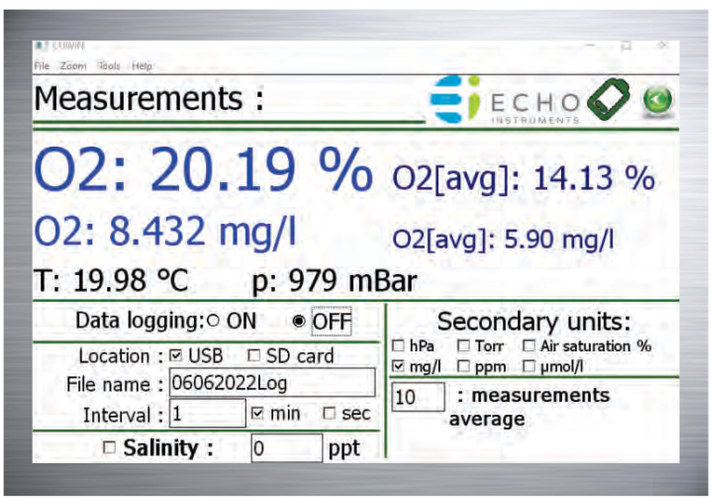
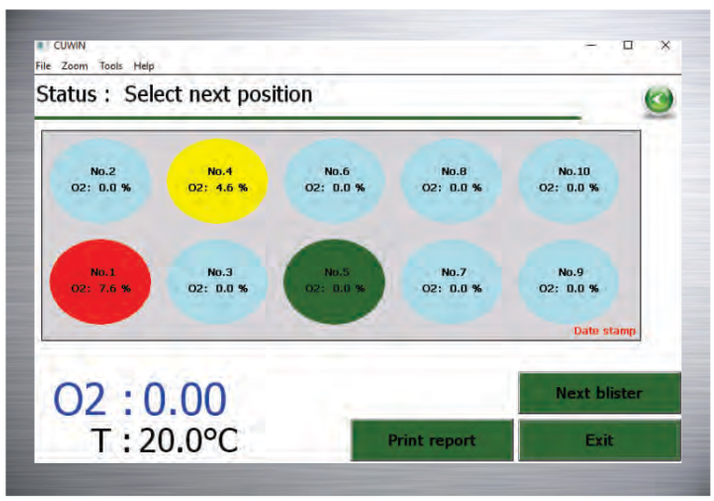
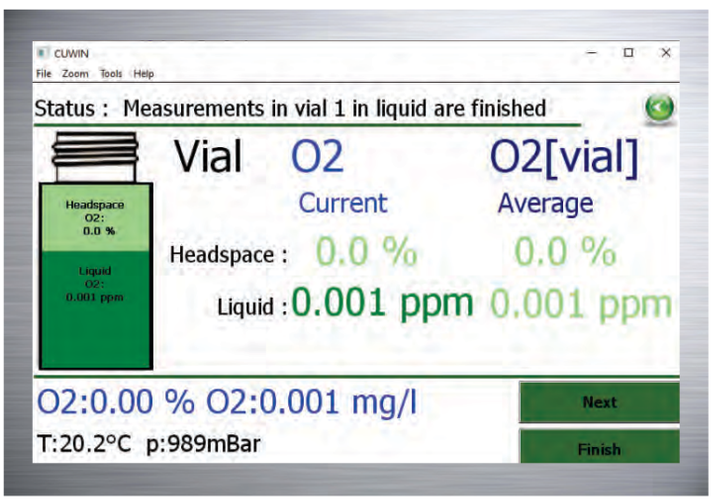
Advantages

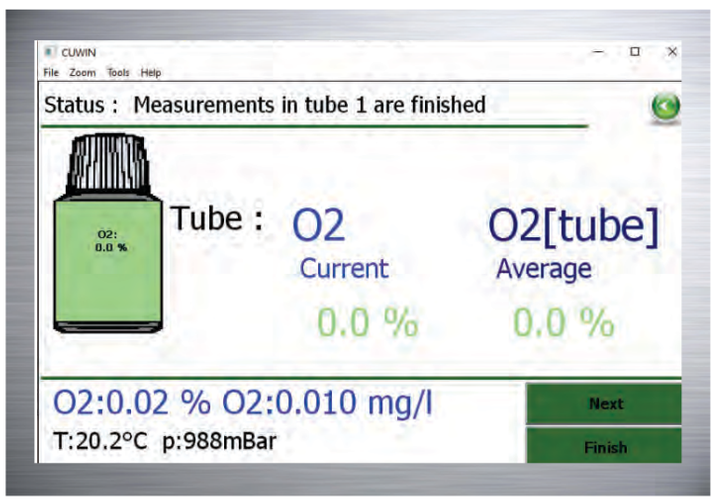
- Measurements in gas or liquid phase;
- No sample extraction;
- High accuracy;
- No O_2 consumption during measurements;
- Salinity factor input for different salinity samples in vials;
- IQ & OQ documentation;
- Sterilizable sensors;
- Calibration is fast and can be performed by the user;
- Battery or regular power supply;
- Measuring range: 0–25 % or 0–100 % O_2;
- Accuracy: ±0.4 % at 20.9 % O_2 or ±0.05 % at 0.2 % O_2;
- Temperature measurement range: 0–50 °C;
- Response time (t_{90}) < 15 sec;
- Calibration: 2-point calibration using nitrogen and synthetic air;
- Dimensions: 180 × 90 × 270 mm, Weight: 1 kg;
- Interface: USB, RS485, Ethernet;
- Needles Ø: 0.4 mm, 0.8 mm.

ECHO Instruments HAND O2 & FOOD O2 software









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