

HandO₂

MANUAL SYSTEM FOR OXYGEN ANALYSIS IN FOOD INDUSTRY, PHARMACY, BIOTECHNOLOGY, MICRO-BIOLOGY AND SCIENTIFIC R&D

Manual needle type oxygen micro-sensor enables micro-invasive measurements with sensor tips smaller than 140 μm . The most commonly it is used for determination of headspace and dissolved oxygen content in packages, for example in pharmaceutical industry HandO₂ is used for oxygen content measurements in pharmaceutical vials, packages, and blisters.

Applications: food & beverage, pharmacy, biotechnology, micro-biology and scientific R & D.



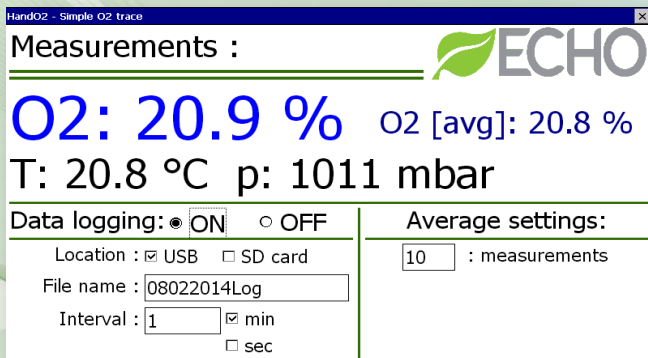
About the sensor

Chemical-optical oxygen sensor is designed for all research and packaging applications where a small tip size ($<140 \mu\text{m}$) and fast response time ($t_{90} < 1\text{s}$) are necessary. The optical oxygen micro sensor is based on a $140 \mu\text{m}$ silica fiber with a $140 \mu\text{m}$ flat-broken tip. The oxygen micro sensor is mounted in needle-type housing.


Technical data

Characteristic	
Measuring principle	Optical sensor
Measuring range	0-50% O ₂
Accuracy	+/- 2% rel or +/- 0,05% O ₂ , which is greater
Response time	(t ₉₀) 15s
Limit of detection	0,05% O ₂
Operating temperature	5-40°C
Dimensions	180 x 90 x 270 mm
Weight	1 kg
Level of protection	IP 50
Power supply	100V-220V AC/ 50 Hz
Interface	USB, RS485, Ethernet

Measuring screen



HandO2 - Simple O2 trace

Measurements : 

O₂: 20.9 % O₂ [avg]: 20.8 %

T: 20.8 °C p: 1011 mbar

Data logging: ON OFF

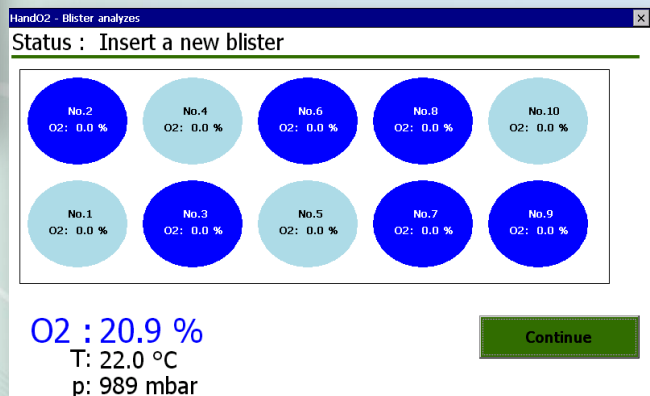
Location : USB SD card

File name : 08022014Log

Interval : 1 min sec

Average settings: 10 : measurements

Specially designed software coupled with capacitive touch screen panel



HandO2 - Blister analyzes

Status : Insert a new blister

No.2 O ₂ : 0.0 %	No.4 O ₂ : 0.0 %	No.6 O ₂ : 0.0 %	No.8 O ₂ : 0.0 %	No.10 O ₂ : 0.0 %
No.1 O ₂ : 0.0 %	No.3 O ₂ : 0.0 %	No.5 O ₂ : 0.0 %	No.7 O ₂ : 0.0 %	No.9 O ₂ : 0.0 %

O₂ : 20.9 %
T: 22.0 °C
p: 989 mbar

Continue