

OxyGuard Polaris C



Hand-held oxygen and temperature meter with NFC and Bluetooth technology for automatic or manual upload to Cobália

The Polaris C meter is a high-performance, low-cost and almost maintenance-free meter for measuring dissolved oxygen and temperature. The meter is sturdy, easy to use and has an extensive longevity making it ideal for harsh conditions.

Polaris C can store up to 2500 complete set of data, including time and date stamps. The logged data can be stored either manually or automatically with the possibility to group the data into categories.

The stored data can be uploaded directly to Cobália using Bluetooth technology*. Scan the Cobália NFC tag on the tank and all data will be uploaded to your “digital farm”. Tank specific data assigned to the tags will be stored in Cobália for analysis on temporal variation, generation of graphs and for multivariable analysis on performance.

The meter has a built-in self-check of all hardware, it compensates automatically for barometric pressure and it has a notably short response time. With this meter, you get the high-quality associated with OxyGuard technology and a product that will serve you well for many years.

** At the moment this feature is only available for Android*

Technical Information

Key benefits

High accuracy
Easy-to-do calibration
Automatic check of the hardware
Automatic compensation for barometric pressure and temperature
Water-resistant
Automatic or manual data logging of up to 2500 full sets of data
Bluetooth and NFC technology for direct upload to Cobália
Low power consumption: ~1000 hours
Immediate response time
Variable display options and unit use
Self-polarizing and temperature compensating electrochemical probe
Long-term stability

Specifications

Units of measurement: Oxygen: ppm (mg/L), % saturation. Temperature: degrees Celsius (°C), degrees Fahrenheit (°F)

Display: Graphical LCD display with variable backlight

Probe type: Electrochemical

Cable length: Standard 3 m. Available at any length up to 50 meters by request

Operating temperature: Probe: -5 to +45 degrees Celsius (°C) and +23 to +113 degrees Fahrenheit (°F). **Meter:** -20 to +60 degrees Celsius (°C) and -4 to 140 degrees Fahrenheit (°F)

Waterproof: Short-term immersion proof to 5m depth

Response time: To 90% in less than 20 seconds

Measuring range: Oxygen: 0-60 mg/L and 0-600 % saturation. **Temperature:** -5 to +45 degrees Celsius (°C) and +23 to +113 degrees Fahrenheit

Measuring accuracy: Oxygen: typically $\pm 1\%$ of measured value. **Temperature:** ± 0.2 degrees Celsius/Fahrenheit (°C/°F)

Data logging capacity: 2500 sets of data with up to 99 data groups

Salinity compensation range: 0-50 ppt salinity. Manually set

Automatic check of: Probe function, meter function, cable and battery

Automatic compensation: Temperature and barometric pressure (0-7000 m a.s.l)

Dimensions meter: Length = 98 mm, diameter = 36 mm (Length: 3.86 in, diameter: 1.42 in)

Dimensions probe: Length = 159 mm, diameter = 22 mm (6.26 in, 0.87 in). With protection cap: Length = 176 mm, diameter = 29 mm (6.93 in, 1.14 in)

Power: 2 AA alkaline batteries

Battery life: 1000 hours use depending on settings and battery quality

Standard accessories: 10 membranes and O-rings, 50 ml electrolyte, cathode cleaning pad, tool, storage pouch

Ordering information

H05: Polaris C comes with standard accessories and one Cobália tag

Spare parts

H10ACCPOL: Accessory kit: 10 membranes and O-rings, 50 ml electrolyte, tool and cathode cleaning pad

D10E1500: Electrolyte type 1 – 500 ml

D10E11L: Electrolyte type 1 – 1000 ml

H10M: Membrane set for Handy (10 membranes and O-rings)

H10CAP: Membrane cap with membrane

H10CB6: Extra Handy cable, per meter

H10PO: Pouch for Handy

C70TAG: Cobália tag

C70CHM: Cobália license for Handy, per year