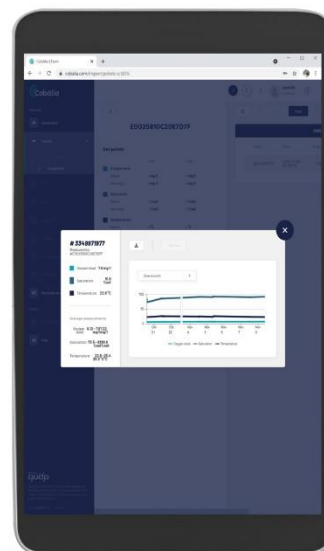# OxyGuard Polaris C

Hand-held oxygen and temperature meter with NFC tags and Bluetooth technology for easy data transfer 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 3000 complete data sets, including time and date stamps. The logged data is stored in the meter or can be transferred to Cobália using Bluetooth.

Scan the Cobália NFC tag of 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 analyses on temporal variations, multivariable analyses on performance and for the generation of graphs.
The meter has a built-in self-check of all hardware, automatic barometric pressure compensation and 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.

OxyGuard ®

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 3000 full sets of data
Bluetooth and NFC technology for direct upload to Cobália
Low power consumption: ~500 hours of active use
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)
Weight: 0,6 kg (0,8 kg incl. bag)
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 ± 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: 0-59 ppt, 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 = 176mm, diameter = 29 mm (6.93 in, 1.14 in)
Power: 1x AA Alkaline battery
Battery life: Up to 230 days of typical usage
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
H10YBATAA: Battery for Handy Polaris C, AA 1.5V