OxyGuard Polaris C Optical



Hand-held oxygen and temperature meter with NFC and Bluetooth technology

The Polaris C Optical meter is an 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 Optical 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.



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: ~150 hours Immediate response time Variable display options and unit use Based on luminescence quenching of an oxygen sensitive dye immobilized on a support foil (sensor spot), it can be used for gas as well as for dissolved oxygen (DO) measurements. Long-term stability Low drift (No offset/zero point calibration)

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: LDO Luminescense optical technology Cable length: Standard 3 m. Available at any length up to 50 meters by request Operating temperature: Probe: -10 to +60 degrees Celsius (°C) and +14 to +140 degrees Fahrenheit (°F). Meter: -20 to +60 degrees Celsius (°C) and -4 to 140 degrees Fahrenheit (°F) Waterproof: The meter is short term immersion proof to 5m depth **Response time:** To 90% in less than 15 seconds in water (less than 5 sec in air) Measuring range: 0xygen: 0-25 mg/L and 0-250 % saturation. Temperature: -5 to +45 degrees Celsius (°C) and +23 to +113 degrees Fahrenheit Measuring accuracy: Oxygen: ± 1% sat, ± 0,1 ppm (mg/I). ± 0.5 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 = 50 mm, diameter = 47,5 mm (1.97 in, 1.87 in) **Power:** 1AA alkaline batteries Battery life: 150 hours use depending on settings and battery quality Standard accessories: Tool, storage pouch Lifetime (minimum): Sensor spot: 2 years

Ordering information

H05LD0: Polaris C Optical comes with standard accessories and one Cobália tag

Spare parts

H05LD0SPK: Sensor spot kit for Handy Polaris C Optical H10T00L: Tool H10CB6: Extra Handy cable, per meter H10P0: Pouch for Handy C70TAG: Cobália tag

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