Datasheet

Polaris C DO & DO High Range
Product no. H05DO-25



OxyGuard International A/S | Farum, Denmark | +45 4582 2094 | oxyguard@oxyguard.com

Intended use

Polaris C meters are portable instruments designed for fast and accurate spot measurements of environmental parameters in aquaculture, research and industrial use.
Polaris C DO ensures precise and reliable measurement of dissolved oxygen in water. Measuring DO is essential for maintaining fish health, water quality and optimal production conditions.

Technical specifications

Units of measure	Oxygen: ppm (mg/L), % saturation. Temperature: Celsius (°C), Fahrenheit (°F)
Display	Graphical LCD display with variable backlight
Probe type	Electrochemical
Cable length	Standard 3 meters / 10 ft. By request; available at any length up to 100 m / 328 ft
Probe immersion depth	For use beyond 10 m (33 ft), a specially designed probe is required. Specify when ordering
Operating temperature	• Probe: -5 to +45 °C / -23 to +113 °F • Meter: -20 to +60 °C / -4 to +140 °F
Meter water resistance	IP67-rated, allowing short-term immersion up to 1 m / 3 ft
Response time	To 90% in less than 20 seconds
Measuring range	• **Standard**: Oxygen: 0-60 (mg/L) / 0-600% saturation. Temperature: -5 to +45° C / +23 to +113° F • **High Range**: Oxygen: 0-120 (mg/L) / 0-1200% saturation. Temperature: -5 to +45° C / +23 to +113° F
Measuring accuracy	• **Standard**: Oxygen: Typically, ± 1% of the measured value. Temperature: ± 0.2° C / F • **High Range**: Oxygen: Typically, ± 4% of the measured value. Temperature: ± 0.2° C / F
Data logging capacity	Min. 3000+ sets of data with maximum 140 tag references
Salinity compensation range	0-59 ppt, manually set
Automatic check of	Probe function, meter function, cable and battery
Automatic compensation	Temperature and barometric pressure (300-1200 mBar)
Dimensions meter	Length = 98 mm / 3.86". Diameter = 36 mm / 1.42"
Dimensions probe	Length = 159 mm / 6.26". Diameter = 22 mm / 0.87" With protection cap: Length = 176 mm / 6.93". Diameter = 29 mm / 1.14"
Power	Single-cell Li-Ion battery pack with integrated battery protection circuitry Nom. 3.7V, max. capacity 9Wh. UN38.3 certified
Battery life	Up to 450 days of typical usage of 2 hr/day.

Order information / part numbers

Replacement probe for Polaris C DO	Item no: H05DOYRP-25
Replacement probe for Polaris C DO High Range	Item no: H05DOHYRP-25
Kit: 10 membranes and 10 O-rings, 50 ml electrolyte and tool	Item no: H10ACCPOL
Set of 10 membranes and 10 O-rings	Item no: H10M
Membrane cap with membrane	Item no: H10CAP
500 ml electrolyte (Type 1)	Item no: D10E10500

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