Datasheet

Polaris C TGP
Product no. H08-25



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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 TGP measures the total gas pressure (% TGP) in water to detect and prevent gas supersaturation that can lead to bubble disease in fish. The meter also measures dissolved oxygen and calculates the remaining gas pressure, giving a clear overview of total gas balance in the system.

Technical specifications

Units of measure	Total Gas Pressure: %TGP, Residual gases by volume (%rvol): Residual gases by saturation (%rsat), Oxygen: ppm (mg/L), % sat. Temperature: Celsius (°C), Fahrenheit (°F)
Display	Graphical LCD display with variable backlight
Types of probes	• Oxygen probe: Electrochemical • Pressure probe: Self-compensating for hydrostatic pressure
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	Total Gas Pressure: 0-200%, Residual gases: 0-200% rsat, Oxygen: 0-60 (mg/L) and 0-600% saturation. Temperature: -5 to +45 °C / +23 to +113 °F
Measuring accuracy	Typically ± 1% of the measured value. Temperature: ± 0.2 °C / °F
Data logging capacity	3000+ sets of data with unlimited unique NFC tag references
Compensation ranges (manually set)	Salinity 0-59 ppt, CO_2 0-50 mg/L
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 = 110 mm / 4.33". + cable gland. Diameter = 58 mm / 2.28"
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 57 days of typical use (2 hr/day)

Order information / part numbers

Polaris C TGP Item no:	H08-25
Replacement probe for Polaris C TGP	Item no: H08YRP-25
Replacement TGP sensor element	Item no. H08XSE
Probe protector and sensor element retainer	Item no. H08XPR
O-ring kit for TGP sensor element, top and bottom (set of 10/ea)	Item no: H08XORKIT
500 ml electrolyte (Type 1)	Item no: D10E10500

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