Datasheet

Polaris C Atmosphere
Product no. H02A-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 Atmosphere measures oxygen concentration in gas (% vol) along with temperature and barometric pressure. Ideal for monitoring ambient air, checking gas purity or verifying oxygen levels in controlled environments.

Technical specifications

Units of measure	Oxygen: ppm (mg/L), % saturation. Temperature: Celsius (°C), Fahrenheit (°F) and Barometric pressure.
Display	Graphical LCD display with variable backlight
Types of probes	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 °C to +45 °C / +23 °F to +113 °F • Meter: -20 °C to +60 °C / -4 °F 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: 0-100 %vol Temperature: -5 °C to +45 °C / +23 °F to +113 °F Barometric pressure: 300-1200 mbar • High Range: Oxygen: 0-200 %vol Temperature: -5 °C to +45 °C / +23 °F to +113 °F Barometric pressure: 300-1200 mbar
Measuring accuracy	• Standard: Oxygen: Typically, ± 0,2% of the measured value Temperature:± 0.2 °C / °F Barometric pressure: ±0.5 mbar • High Range: Oxygen: Typically, ± 0.8% of the measured value Temperature: ± 0.2 °C / °F Barometric pressure: ± 0.5 mbar
Data logging capacity	Min. 3000+ sets of data with a maximum of 140 tag references
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 use of 2 hr/day. Charge the battery before first use

Order information / part numbers

Replacement probe for Polaris C Atmosphere	Item no: H02AYRP-25
Replacement probe for Polaris C Atmosphere High Range	Item no: H02AHYRP-25
Polaris C Atmosphere flow-through chamber w/ 6 mm hose fittings	Item no: H02CHA
Accessory kit for Polaris C Atmosphere	Item no: H02XAC1
Membrane kit for Polaris C Atmosphere	Item no: H02XM
Membrane cap for Handy Atmosphere, incl. membrane	Item no: H02XCAP
Electrolyte - 500 ml, type 2	Item no: D10E20500

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