

OxyGuard Handy Polaris TGP

Hand-held Total Gas Pressure Meter



The OxyGuard Handy Polaris TGP (Total Gas Pressure) is a hand-held gas pressure meter. It can operate in three modes, one where it acts as a standard Handy Polaris dissolved oxygen (DO) meter, one where it is a total gas pressure meter that shows pressures as percent saturation values and one where it is a total gas pressure meter that shows pressures as volume percentages.

The user can choose which value is shown in large figures in the display. This can, for example, be the percent saturation value for gases other than oxygen.

The instrument incorporates a data logger. Messages on the display, and menu functions, make the Handy Polaris TGP easy to use.

Technical Information

Advantages

The Handy Polaris TGP is designed for easy use and to give accurate here-and-now measurements of the total dissolved gas pressure. The instrument also has a dissolved oxygen and temperature sensor and can display values of total gas, dissolved oxygen and residual gas, i.e. gas other than oxygen. These can be shown as percent saturation values or as volume percentage values. The Handy Polaris TGP can also be used as a standard Handy Polaris 2 DO meter.

Maintenance is easy. The DO measurement is made using the well-known OxyGuard Handy probe, and the TGP sensor element can be exchanged if necessary.

Specifications

Dimensions:	Instrument: diameter 98 mm, height 36 mm. Probe: diameter 58 mm, length 110 mm + cable gland.
Cable length:	Standard: 3 m, other on request.
Operating conditions:	Probe: -5 to +45°C, meter: -20 to +60°C.
Encapsulation (meter):	Short-term immersion proof to 5m depth.
Display:	Graphical LCD display with variable backlight.
Parameters measured:	Oxygen partial pressure, atmospheric pressure, total dissolved gas pressure and temperature at probe.
Parameters displayed:	DO in mg/l, % sat or % vol. TGP in % sat. Residual gas in % sat or % vol. Temperature in °C or °F.
Measuring ranges:	DO: 0-60.0 ppm (mg/l), 0-600% sat and 0-60% vol. Temperature: -5 to +45°C. Pressures: to over 200% sat, 2 bar.
Accuracy:	DO: better than +/- 1% of value +/- 1 digit (calibration dependant). Pressure: +/- 2% of value. Temperature: +/- 0.2°C.
Repeatability:	DO measurement typically better than +/- 0.5% of measured value.
Oxygen probe type:	Galvanic cell, self polarizing, self temperature compensating.
Compensation:	DO: automatically compensated for temperature and barometric pressure, manually compensated for salinity. TGP: manually compensated for dissolved CO ₂ .
Self-check of:	Probe function, meter function, cable, battery.
Accessories included:	Storage pouch, DO probe membranes with O-rings, electrolyte and cathode cleaning pad.

Ordering Information

H08:	OxyGuard Handy Polaris TGP complete with accessories.
H08XSE:	Replacement TGP sensor element.
H08XPR:	Probe protector/sensor element retainer.
H10LINK:	OxyGuard Handy Polaris Link for transfer of data to PC.
H10ACC:	DO accessory kit: 10 membranes and O-rings, 50 ml electrolyte, tool and cathode cleaning pad.
D10E1500:	500 ml electrolyte for DO probe.
D10E11L:	1 liter electrolyte for DO probe.
H10CAP:	Membrane cap with membrane for DO probe.
H10CB6:	Extra cable per meter.
H10PO:	Pouch.

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