

# OxyGuard Handy Polaris

*Dissolved Oxygen and Temperature Meter that is very easy to use*



## Hand-held dissolved oxygen meter

The Handy Polaris hand-held meter makes it easy to measure dissolved oxygen and temperature. The flat foil pushbuttons are easy to operate and the instrument is always ready to use - just press the "on" button and measure.

Dissolved oxygen values are shown both in mg/l (ppm) and % saturation - you can choose which parameter is shown in large figures. Measurements are compensated for changes in barometric pressure.

Functions such as automatic calibration and self-check of the probe and meter combine with the well-known accuracy, reliability and low maintenance needs of the OxyGuard Handy series to make an instrument that will serve you well for many years to come.

# Technical Information

## Technical Advantages

### Meter

- Automatic calibration with stability check.
- Automatic self-check of instrument
- Automatic check of cable and probe.
- Compensates for changes in atmospheric pressure
- User selectable language.
- User selectable main display parameter.
- "On-screen" instructions.
- Waterproof.
- 1400 hours use from one 9V alkaline battery.
- Illuminated display with variable intensity.
- Automatic shutdown for power saving.

### Probe

- Galvanic type.
- Self-polarizing.
- No warm up time.
- Fully temperature compensated.
- Remarkably short response time.
- Stores dry.
- Excellent long-term stability.
- Tough membrane.
- No need for regular service or renovation.
- Probe renovation easy and fast when needed.
- Spares available at very low price.

## Specifications

Parameters:	ppm (mg/l), % saturation, temperature (°C or °F), salinity compensation.
Display:	Large, easy to read graphical LCD display. Variable backlight.
Probe Type:	Galvanic cell, self polarizing, self temperature compensating.
Cable Length:	Standard 3 m. Any length available on request.
Operating Conditions:	Probe: -5 to +45°C, meter -20 to +60°C.
Encapsulation (meter):	Short-term immersion proof to max. 5m depth.
Measuring Range:	0-60.0 ppm (mg/l) and 0-600% saturation. Automatically compensated for temperature and barometric pressure. Manual salinity compensation. Temperature -5 to +45°C.
Salinity Compensation:	0-59 ppt salinity (manually set).
Accuracy:	Depends on calibration accuracy. Typically better than +/- 1% of measured value +/- 1 digit within the standard measuring range.
Repeatability:	Typically better than +/- 0.5% of measured value.
Response Time:	90% of end value in less than 20 seconds in water.
Accuracy, Temperature:	+/- 0.2°C.
Dimensions:	98 mm diameter x 36 mm + belt clip (if used).
Self-check of:	Probe function, meter function, cable, battery.
Useful battery life:	Typically 500 hours normal use, max. 2 years.
Standard Accessories:	Membranes with O-rings, electrolyte, cathode cleaning pad, storage pouch.

## Ordering Information

H01P: Handy Polaris supplied with standard accessories.

### Spares

H10ACC: Accessory kit: membrane cap, 5 membranes & O-rings, 50 ml electrolyte and tool.

D10E1500: 500 ml electrolyte.

D10E11L: 1 liter electrolyte.

H10M: Membrane kit: membranes & O-rings.

H10CAP3: Membrane cap with membrane.

H10CB6: Extra cable per meter.

H10PO: Pouch.

H01P Handy Polaris brochure gb 0211  
Data subject to change without notice