Handy Polaris 2

Portable Dissolved Oxygen Monitor with Datalogger

PRODUCT DATASHEET

APPLICATIONS

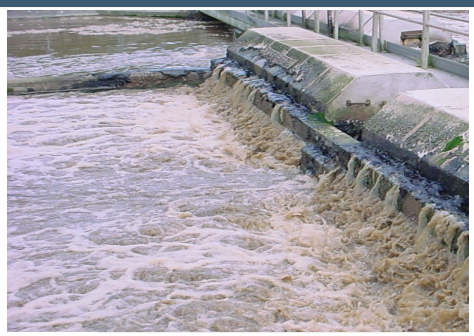
River Monitoring
Aeration Control

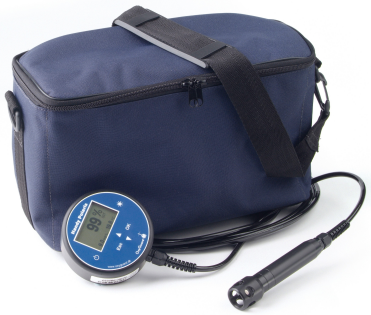
MEASUREMENT PRINCIPLE

Galvanic Cell
Self Polarizing
Self Temperature Compensated

KEY BENEFITS

Probe can be stored dry
No regular maintenance
1400 Hours from one 9V battery
Internal Datalogger – 3000 data points
PC link via USB cable for data download





Measuring Dissolved Oxygen in Activated Sludge Plants is a vital part of process control, the Polaris 2 makes this an easy, fast and reliable process, allowing users to check process performance and the accuracy of any online instrumentation. The Polaris 2 is also great for monitoring DO in Reservoirs, Rivers, Aquaculture and water treatment process.

The handheld monitor has a large display and an extremely long battery life – many months of normal operation. The system carries out a self-check process every time it is switched on and will carry out calibration of the system at the push of a button. The long standing ability to store the probe dry removes that need for regular probe regeneration and means that the system is ready for use straight from the bag.

The Handy Polaris 2 includes an in built data logger that can store up to 3000 data sets (Dissolved Oxygen, Temp, Date/Time) that can be easily uploaded to the PC via the USB link cable.

The Handy Polaris 2 is supplied with a self polarising, galvanic sensor which is self temperature compensating which can be stored dry. There is no need for any maintenance other than wiping the sensor clean after use. The power consumption is exceptionally low, typically providing 1400 hour use from a single 9V battery.
The Handy Polaris 2 comes complete with membrane maintenance kit, USB to PC link cable and carry bag as standard

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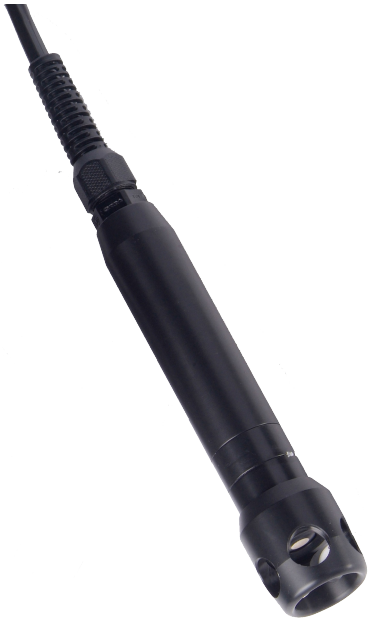

Physical	
Dimensions	98 mm diameter x 36 mm
Weight	0.5 kg
Protection Class	Electronics IP65, Sensor IP68 to 5 metres
Enclosure Material	Polyoxymethylene (POM)
Cable Entries	Integral Cable Gland
Cable Size	3 core, 5 mm OD Polyurethane coated cable
Cable Length	3 metre standard, 100 metre maximum
Service Requirements	No routine servicing Will require cleaning after use
Electrical	
Battery	Standard PP9 Battery
Battery Life	Approx 2 years with 1 hour's use per day, 5 months with 8 hours use per day
Environmental Data	
Operating Temperature	Monitor: -20 to 60°C Sensor: -5 to 45°C
Measurement Details	
Accuracy	Better than +/- 1% of measured value
Repeatability	Better than +/- 0.5% of measured value
Response Time	90% of end value in less than 20 seconds in water
Temperature Accuracy	+/- 0.2°C
Salinity Compensation	0 – 59 ppt Salinity – manually set
Measurement Principle	Galvanic Cell, Self Polarizing, Self Temperature compensating
Range	0 – 60 mg/l (ppm), 0-600%Sat Automatically compensated for temperature and barometric pressure
User Interface	
Display	Graphical Display providing 3 1/2 Digit
Setup	via 6 Button Membrane Keypad
Self Checking	Probe Function, Electronic Function, Cable, Battery
Condition	
Units of Measurement	mg/l, ppm, %Sat
Internal Memory	3000 data sets: 1 Set = mg/l + %Sat + Temp + Date + Time
Standard Accessories	Membrane Cap, Membranes, Electrolyte, Cathode Cleaning Pad, USB to PC data link
Mounting	
Type	Portable

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