



PH1000
Sensor



Description

The Greenspan pH1000 sensor provides a reliable and cost effective solution for monitoring of pH in a wide variety of environmental and water monitoring applications. The sensor utilises a robust gel filled pH electrode together with optical isolation and advanced signal conditioning to ensure long term accurate data.

The new sensor also features a field replaceable electrode and ring filter pad to further improve long term performance and reduce field visits. The filter pad protects the electrode from contamination and can be easily replaced during service visits.

The sensor requires low power supply and provides a calibrated 4-20mA output. The sensor is fitted with a moulded polyurethane cable as standard. Other cable options may be available.

The sensor is ideal for use in all environmental water monitoring applications, including tidal and estuary monitoring. A durable acetal body with double O ring design ensures suitability for harsh environment applications.

The pH1000 sensor is easy to install and provides a reliable solution to long term monitoring. For more information please contact your nearest sales office.

Features

- Field replaceable gel filled pH electrode
- Innovative replaceable ring filter pad
- Optically isolated signal conditioning electronics
- Low power energy saving enables long-term remote operation.

Benefits

- Rugged electrode design provides unparalleled remote operations
- Operation on remote power source for long periods
- High reliability means critical measurements are not lost through sensor down time
- Minimal field servicing and reduced field visits
- Electrode field replacement to maintain continuous accurate readings.

Applications

- Monitoring of streams and rivers, lakes and urban waterways
- Catchment studies and forestry management
- Water supply storages including stratification studies
- Water and wastewater treatment monitoring
- Groundwater analysis and monitoring
- Industrial process, Acid Sulphate studies
- Tidal, estuary and oceanographic monitoring.

Dimensions



PH1000 Specification

Measurement technique	Gel-filled glass electrode with internal Ag/AgCl reference Field Replaceable electrode
Sensor range (factory calibrated)	2-12 pH (4mA = 2pH, 20mA = 12pH)
Sensor output	Analogue 4-20mA
Accuracy	+/-0.2pH (+/- 0.2mA)
Cable type	Polyurethane sheathed cable, OD 8mm, with 3mm vent tube, moulded entry, bare wire connection
Cable lengths	10, 20, 30, 50, 100, 150 m (32, 65, 100, 165, 325, 490 ft)
Power supply	10-14 VDC (at sensor)
Reverse polarity protection	Yes
Surge current protected	To 2kV
Warm up time to stable reading	2 sec
Current consumption	10mA to 30mA while turned on
Operating temperature	0-50°C
Storage temperature	-5°C - +60°C
Depth rating (water column)	100m
Weight	500g plus cable weight (665g per 10m length)
Dimensions (L x OD)	384.20mm x 47mm (15.13" x 1.85")
Wetted materials	UPVC, acetal, 316 passivated stainless steel, polyurethane, viton



Optional Extras and Accessories

Please consult your Greenspan sales representative to confirm any optional extras or accessories.

How to Order

The following information will be required:

- Moulded cable length (m)
- Any other accessories*

* Consult your Greenspan sales representative for further details.



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