

GREENSPAN



**PH-1000A & PH-1000L
ANALOGUE OR LOGGING PH SENSOR**

PH-1000A & PH-1000L

Analogue or Logging PH Sensor

DESCRIPTION

The PH-1000A is a fully submersible sensor, well proven to withstand harsh field conditions. Applications include the salty or acidic water conditions found in sewer, surface and groundwater. The sensor requires low voltage power supply and provides a calibrated 4–20 mA output.

Designed with input and support from real users, the PH-1000A is a rugged sensor that is also easy to service and clean in the field. The smooth lines of the durable Acetal body with double O-ring design minimise ragging in sewer applications. The shrouds that protect the electrode from impact are easily removed for cleaning. The sensor is fitted with a moulded cable with a tough, polyurethane outer sheath that is reinforced with strong Aramid fibres that can support many times the sensor weight.

A special feature of the combination pH electrode is a reference protection ring. Made from porous PTFE which is impregnated with a special conductive gel, this ring prevents chemical or biological fouling from reaching the

reference. The low cost protection ring can be simply replaced if it is contaminated or fouled, extending the life of the combination electrode. At the end of its life, the electrode can be replaced by the user in the field without the need to return the sensor to the factory.

The PH-1000A 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 reference protection ring
- Robust, easy clean design
- Optically isolated signal conditioning electronics
- Low power energy saving enables long-term remote operation

BENEFITS

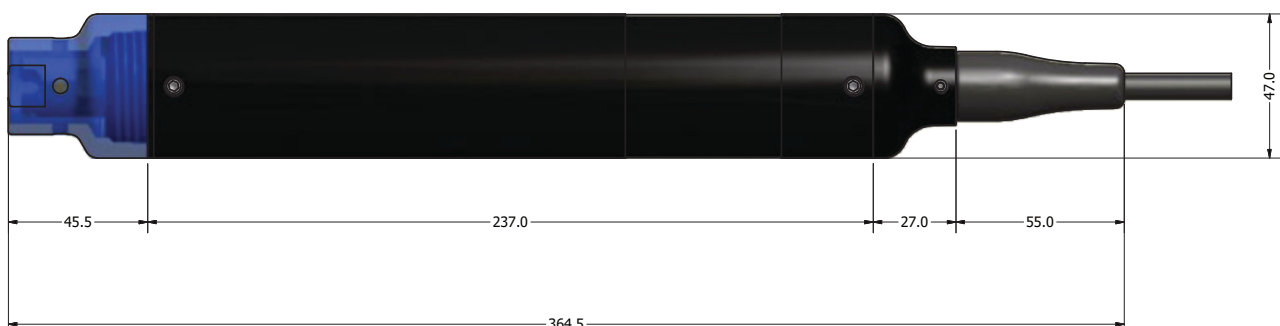
- Rugged electrode design provides unparalleled remote operations

- 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

- Sewer monitoring
- 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



PH-1000A & PH-1000A

SENSOR

PH-1000 SPECIFICATION

Measurement technique	Gel-filled glass electrode with internal Ag/AgCl reference Field Replaceable electrode
Sensor range (factory calibrated)	0-14 pH (4 mA= 0 pH, 20 mA= 14 pH)
Sensor output	Analogue 4-20 mA
Accuracy	+/-0.2 pH (+/-0.2 mA)
Cable type	Polyurethane sheathed cable, OD 8 mm, Aramid reinforced, moulded entry, bare wire connection
Standard cable lengths	10, 20, 30, 50, 100, 150 m
Non-standard cable lengths	Yes (Extracable moulding time may be required)
Power supply	11-13.2 VDC (at sensor)
Reverse polarity protection	Yes
Surge current protected	To 2 kV
Warm-up time to stable reading	2 sec
Current consumption	10 mA to 30 mA while turned on
Operating temperature	0-50°C
Storage temperature	-5°C - +60°C
Depth rating (water column)	100 m
Weight	500 g plus cable weight (665 g per 10m length)
Dimensions (L-OD)	364.5 mm · 47 mm (14.35" · 1.85")
Wetted materials	Acetal, 316 passivated stainless steel, polyurethane, viton

OPTIONAL EXTRAS AND ACCESSORIES

- Field replaceable electrode kit
- Reference protection ring
- Copper electrode shroud

HOW TO ORDER

The following information will be required:

- Cable length (m)
- Any other accessories



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