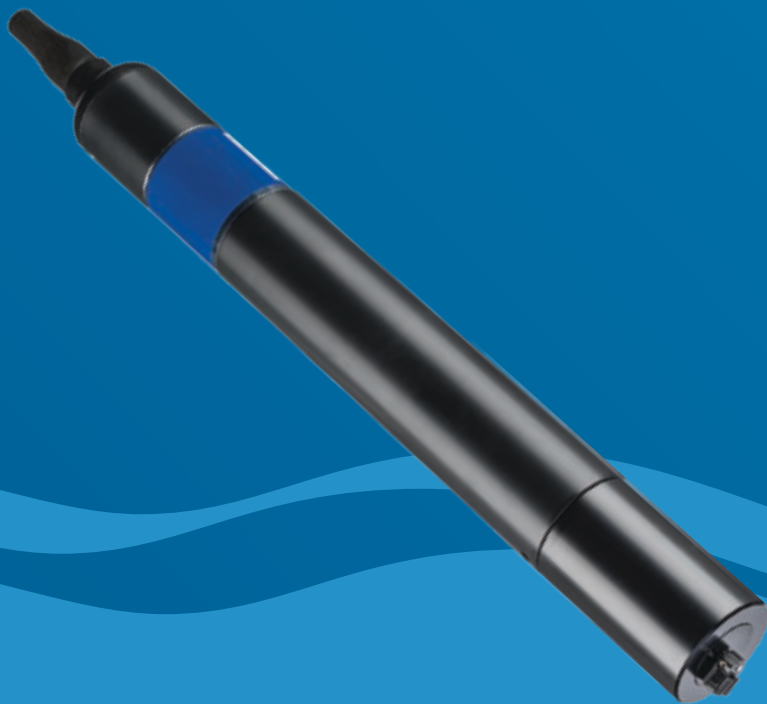


GREENSPAN



TS1000-A & TS-1000L

TURBIDITY SENSOR

TS1000-A & TS-1000L

TURBIDITY SENSOR

DESCRIPTION

The Greenspan TS-1000 Turbidity Sensor provides a reliable and cost effective solution for monitoring turbidity in a wide range of environmental applications. The integral wiper assembly provides long term reliable operation at remote sites where bio-fouling or sedimentation is likely.

The TS-1000 is a low power unit and provides either 4–20mA or 0–2.5V outputs. The wiper is triggered by a separate control wire.

The TS-1000L includes the Greenspan 3000 data logger for a complete sensor solution.

The sensor is ideal for use in all water monitoring applications, including tidal and estuary monitoring.

A durable acetal body, double O-ring design ensures suitability for harsh environment applications. It can be supplied in various ranges, and comes fitted with a moulded polyurethane cable.

The TS-1000 sensor is easy to install and provides users with a rugged and reliable solution to long term monitoring. For more information please contact your nearest sales office.

FEATURES

- Turbidity measurement conforms to ISO7027
- Integral self cleaning wiper
- Rugged acetal body
- Field replaceable wiper pad

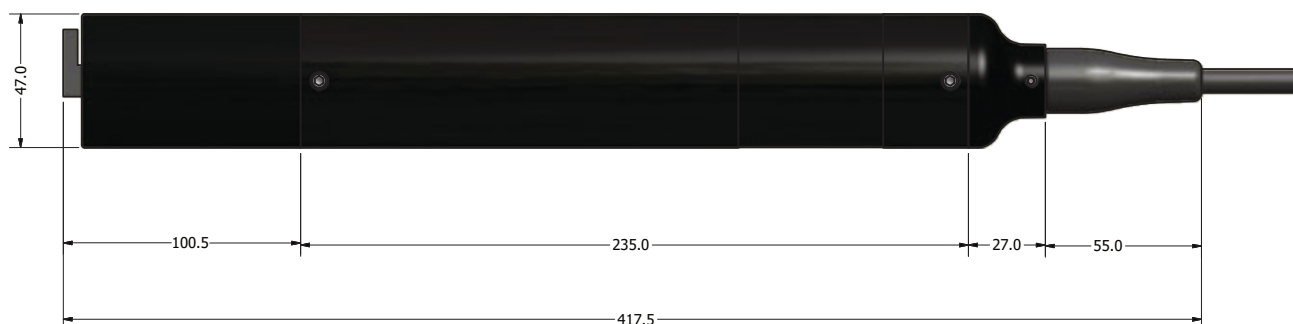
BENEFITS

- Can be installed in active waters (acidic or salty) where stainless steel is not suitable
- Reliable and robust sensor ensures minimal field visits for maintenance
- Suitable for marine applications and waterways with high sediment loads

APPLICATIONS

- Monitoring of streams and rivers, lakes and urban waterways
- Catchment studies and forestry management
- Water supply storages including stratification studies
- Intermediate and final effluent treatment monitoring
- Drinking water filtration efficiency
- Tidal, estuary and oceanographic monitoring

DIMENSIONS



TS-1000A & TS-1000L

TURBIDITY SENSOR

TS-1000 SPECIFICATION

Measurement technique	90° Infra-red (ISO7027)		
Std ranges available (factory set)	100 NTU	400 NTU	1,000 NTU
Resolution	0.1 NTU	0.2 NTU	0.3 NTU
Linearity @25°C	+/-1%	+/-1%	+/-3%
Temperature coefficient	+/-0.2%/°C	+/-0.1%/°C	+/-0.1%/°C
Sensor outputs	4-20 mA or 0-2.5 VDC		
Calibration standard	APSAEPA polymer solutions 0, 100 NTU, 400 NTU, 1000 NTU		
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 (Extra cable moulding time may be required)		
Power supply	8 to 30 VDC (at sensor)		
Power ESD protection	2000 volts		
Current consumption	Sensor 15-40 mA while operating Plus extra 30-35 mA- while wiping		
Sensor warm-up time	10 seconds		
Wiper arrangement	Silicon wiper blade on PVC arm. Field replaceable		
Wiper control	Pull control wire to GND momentarily Pulse time required >50 ms		
Wiper time	<8 seconds (1 revolution)		
Operating temperature	0-50°C		
Depth rating (water column)	100 m		
Storage temperature	-5°C - +60°C		
Weight	500 g plus cable weight (665 g per 10 m length)		
Dimensions (L×OD)	417.5 mm × 47 mm (16.44" × 1.85")		
Wetted materials	UPVC, Acetal, 316 passivated stainless steel, polyurethane, viton		

OPTIONAL EXTRAS AND ACCESSORIES

- Spare wiper kit

HOW TO ORDER

The following information will be required:

- Sensor full scale range (NTU)
- Moulded cable length (m)



Integral wiper silicone wiper blade provides self-cleaning of sensor lens for long-term unattended operation.



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