



TS1000
Turbidity Sensor

Description

The Greenspan TS1000 Turbidity Sensor provides a reliable and cost effective solution for monitoring of 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 TS1000 is a low power unit and provides both 4-20mA and 0-2.5V outputs. The wiper is triggered by a separate control wire.

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 is fitted with a moulded polyurethane cable as standard. Other cable options may be available.

The TS1000 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



TS1000 Specification

Measurement technique	90° Infra-red (ISO7027)
Std ranges available (factory set)	100NTU, 400NTU and 1,000NTU
Resolution	0.1NTU, 0.2NTU, 0.3NTU
Linearity	+/- 1% +/- 1% +/- 3%
Calibration standard	APS AEPA polymer solutions 0,100NTU,400NTU,1000NTU
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	8 to 30Vdc (at sensor)
Power ESD protection	2000 volts
Current consumption	Sensor 15-40mA while operating Plus extra 30-35mA – while wiping
Sensor warm-up time	10 seconds
Outputs	0 - 2.5V and 4 - 20mA concurrent
Wiper arrangement	Disposable foam pad on PVC arm. Field replaceable
Wiper control	Pull control wire to GND momentarily Pulse time required >50ms, and <4 sec
Wipe time	6 seconds (1 revolution)
Operating temperature	0-50°C
Depth rating (water column)	100m
Storage temperature	-5°C - +60°C
Weight	500g plus cable weight (665g per 10m length)
Dimensions (L x OD)	322.90mm x 47mm (12.7" 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:

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



Integral Wiper Pad provides self cleaning of sensor lens for long term unattended operation



Australia

Head Office
Goyen Controls Co Pty Ltd
268 Milperra Road
Milperra, NSW 2214

Telephone: 1800 805 372
Facsimile: 1300 658 799

Sales and Service
Queensland, South Australia
Victoria, Western Australia

Telephone: 1800 805 372
Facsimile: 1300 658 799

USA

Goyen Valve Corporation
1195 Airport Road
Lakewood
New Jersey 08701, USA

Telephone: 1 732 364 7800
Facsimile: 1 732 364 1356

Asia

Goyen Controls Co Pty Ltd
Shanghai Representative Office
1209 Greenland Business Centre
1258 Yu Yuan Road
Shanghai PC200050, CHINA

Telephone: 86 21 5239 8810
Facsimile: 86 21 5239 8812

Goyen Controls Co Pty Ltd
73-M Jalan Mega Mendung
Kompleks Bandar OUG
58200 Kuala Lumpur, MALAYSIA

Telephone: 60 37 987 6839
Facsimile: 60 37 987 7839

Greenspan Singapore Pte Ltd
02-01, Minwa Industrial Building
39 Genting Lane
Singapore 349554

Telephone: 65 6748 0140
Facsimile: 65 6748 2534

Europe

Goyen Controls Co UK Ltd
Unit 3B Beechwood
Chineham Business Park
Basingstoke, Hampshire, RG24 8WA
UNITED KINGDOM

Telephone: 44 1256 817 800
Facsimile: 44 1256 843 164

Tyco Umwelttechnik GmbH
Im Petersfeld 6
D-65624 Altendiez
GERMANY

Telephone: 49 6432 1001/1002
Facsimile: 49 6432 63810

Mecair S.r.l.
Via per Cinisello 97
20054 Nova Milanese
Milano,
ITALY

Telephone: 39 362 375 118
Facsimile: 39 362 375 124