TurbiTechw² D-ISO

Turbidity Sensor

PRODUCT DATASHEET

Building on the success of the TurbiTechw² LR sensor and by continually striving to improve and expand our product range Partech is proud to introduce the new TurbiTechw² D-ISO sensor. The D-ISO is a natural evolution in terms of development and offers our customers an improved user experience in all areas.

The TurbiTechw² D-ISO was developed using valuable feedback from existing customers and incorporates that feedback into it's use and function.

It uses 40 years of sensor design to produce a new sensor that captures stray light to ensure a stable zero point.

A new automatic self cleaning mechanism that prevents the build up of fouling in and around the chamber making this the bench mark for low range turbidity.

It's an extremely sensitive sensor can detect changes in Turbidity of less than 0.01 NTU. It's global standard of light scatter technique makes the sensor sensitive to a wider range of particle sizes.

The sensor requires very little maintenance, with no tools or training required. Calibration can be carried out against either a wet Turbidity standard or using the dry calibration reference cell that is supplied with every sensor. The reference cell provides an extremely easy, repeatable method of checking the performance of the sensor, without the cost and inherent errors associated with chemical standards.

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PRODUCT SPECIFICATION

185 mm

300 mm

300 mm

128 mm

Physical

Dimensions	300 x 185 x 128 mm (HxWxD)
Weight	3.9 kg (inc 5 m of cable)
Protection Class	IP65
Cable Entries	Integral cable gland
Wetted Parts	Black acetal, Polypropylene, Nylon, chrome plated brass, Spectrosil 2000, nitrile
Process Connections	Inlet and drain: ½" BSP with 12 mm hosetail Outlet: ¼" BSP with 5 mm hosetail
Cable Type	4 core, 2 twisted pair 5 mm outside diameter, polyurethane coated
Cable Length	5 metres as standard, other lengths can be supplied on request
Service Requirement	Wiper replacement annually as required (application dependent)

Environmental Data

Operating Temperature	0 to 50°C

Interface to Monitor

Power Supply	12VDC from monitor
Sensor Output	ModTech - RS485

Measurement

Low Range	0-30 NTU
Accuracy	± 2% of measured value or ±0.02 NTU whichever is greater
Limit of Detection	0.02 NTU
Minimum Operating Range	0 - 3 NTU
High Range	0-200 NTU
Accuracy	± 2% of measured value or ±0.1 NTU whichever is greater
Limit of Detection	0.5 NTU
Minimum Operating Range	0 - 20 NTU
Measurement Principle	90° Light Scatter, ISO 7027 Compliant
Pressure Rating (Max)	2 bar
Flow Rate	0.5 L/min to 3 L/min
Units	NTU, FTU, FNU

It has been assumed that 1 NTU = 1 FTU = 1 FNU for purposes of this document

Mounting

Installation Type	Wall or surface

Order Codes
Part No   Description

227981   TurbiTechw² D-ISO Sensor (Range: 0-30 NTU, Cable Length: 5 metres)

229948   TurbiTechw² D-ISO Sensor (Range: 0-200 NTU, Cable Length: 5 metres)

Publication No: 227981DS-Iss05

The company reserves the right to alter the specification without prior notice. E&OE