Building on the success of the TurbiTech² LR sensor and by continually striving to improve and expand our product range Partech is proud to introduce the new TurbiTech² 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 TurbiTech² D-ISO was developed using valuable feedback from existing customers and incorporates that feedback into its 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.
TurbiTechw² D-ISO
Turbidity Sensor

PRODUCT SPECIFICATION

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

Range
Low Range 0-30 NTU
High Range 0-200 NTU

Accuracy
± 2% of reading or 0.02 NTU (Low Range)
± 2% of reading or 0.1 NTU (High Range)

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)

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Since 1953, Quality Products to Sense, Measure & Control
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