

# TurbiTechw<sup>2</sup> D-ISO

## Turbidity Sensor

PRODUCT DATASHEET

### APPLICATIONS

Raw Water  
Process Control  
Final Water Monitoring  
Filtered Water  
Filter Backwash Control  
Clarifier Supernatant

### MEASUREMENT PRINCIPAL

90° Light Scatter  
ISO 7027 Compliant

### FEATURES

Dry Secondary Standard  
Ultra Low Back Scatter  
Auto-Clean Sensor

### COMPATIBLE MONITOR

7300w<sup>2</sup> Monitor

### ACCESSORIES

De-Bubbler



Building on the success of the TurbiTechw<sup>2</sup> LR sensor and by continually striving to improve and expand our product range Partech is proud to introduce the new TurbiTechw<sup>2</sup> 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 TurbiTechw<sup>2</sup> 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.

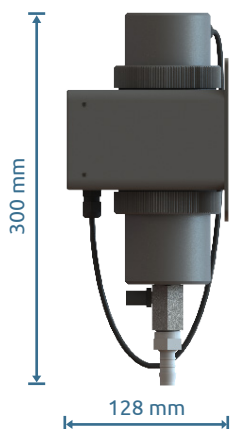
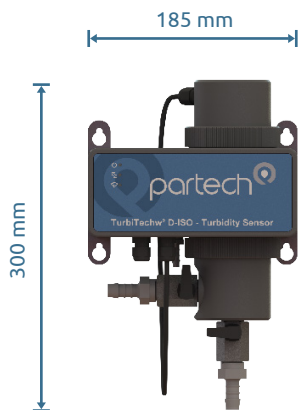
It's an extremely sensitive sensor can detect changes in Turbidity of less than 0.01 NTU. It's global standard of light scatter technique makes the sensor sensitive to a wider range of particle sizes.

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.

# TurbiTechw<sup>2</sup> D-ISO

## Turbidity Sensor

### PRODUCT SPECIFICATION



#### Order Codes

Part No	Description
227981	TurbiTechw <sup>2</sup> D-ISO Sensor (Range: 0-30 NTU, Cable Length: 5 metres)
229948	TurbiTechw <sup>2</sup> 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

#### Physical

Dimensions  
Weight  
Protection Class  
Cable Entries  
Wetted Parts

#### Process Connections

Cable Type  
Cable Length  
Service Requirement

#### Environmental Data

Operating Temperature

#### Interface to Monitor

Power Supply  
Sensor Output

#### Measurement

Low Range  
Accuracy  
Limit of Detection  
Minimum Operating Range

High Range  
Accuracy  
Limit of Detection  
Minimum Operating Range

Measurement Principle  
Pressure Rating (Max)  
Flow Rate  
Units

#### Mounting

Installation Type

300 x 185 x 128 mm (HxWxD)

3.9 kg (inc 5 m of cable)

IP65

Integral cable gland

Black acetal, Polypropylene, Nylon, chrome plated brass, Spectrosil 2000, nitrile

Inlet and drain: ½" BSP with 12 mm hosetail

Outlet: ¼" BSP with 5 mm hosetail

4 core, 2 twisted pair 5 mm outside diameter, polyurethane coated

5 metres as standard, other lengths can be supplied on request

Wiper replacement annually as required (application dependent)

0 to 50°C

12VDC from monitor  
ModTech - RS485

0-30 NTU

± 2% of measured value or ±0.02 NTU whichever is greater

0.02 NTU

0 - 3 NTU

0-200 NTU

± 2% of measured value or ±0.1 NTU whichever is greater

0.5 NTU

0 - 20 NTU

90° Light Scatter, ISO 7027 Compliant

2 bar

0.5 L/min to 3 L/min

NTU, FTU, FNU

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

Wall or surface

**BESTOBELL**  
**AQUATRONIX**  
SINCE/DEPUIS 1953

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