

Turbidity Plus™

with Integrated Wiper



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Turbidity Plus™ is an accurate single-channel turbidity sensor with an integrated, user-controlled wiper motor. It is designed for integration with multiparameter systems and dataloggers from which it receives power and wiper motor triggers at user-defined intervals. Turbidity Plus delivers a voltage output proportional to the turbidity of the sample which can be correlated to nephelometric turbidity unit (NTU) concentrations by calibrating the sensor using AMCO Clear Turbidity Standards available from GFS Chemicals. Deployable to 200 meters, Turbidity Plus is available in a variety of configurations to simplify integration.

Turbidity Plus Highlights

- Integrated Wiper Package
- Low Power Consumption
- Easy-to-integrate Configurations
- Excellent Value

Physical Specifications

Diameter of housing: 1.185", 3.01 cm (Delrin)

Length:

Housing only: 4.35", 11.05 cm

Housing w/ Connector & Wiper: 6.10", 15.49 cm

Weight w/ Connector & Wiper: 4.9 oz; 138 g

Temperature Range:

Ambient: 0 to 50 deg C

Water Temp: -2 to 50 deg C

Depth Range: 200 meters

Electrical Specifications

Signal Output: single gain, 0 – 5 VDC

Supply Voltage Range: 6 – 9 VDC

Maximum Peak Current: 100 mA

Settling Time from power on: $T_{99} = < 3$ seconds

Power Requirements:

@6V 120 mW signal only

@6V 160 mW while wiper rotates

Performance Specifications

Linearity: 0.99R²

MDL: 0.5 NTU

Range: 0 – 3,000 NTU

Precision:

0 – 10 NTU (+/- 0.1 NTU)

10 – 1000 NTU (+/- 0.4 NTU)

> 1000 NTU (+/- 0.04% of NTU)

Resolution: Datalogger Specific

*Accuracy: Calibration Specific (Turbidity Plus sensors are not factory calibrated)

Ordering Information

AVAILABLE CONFIGURATIONS FOR TURBIDITY PLUS WITH INTEGRATED WIPER MOTOR

2180-000	With Connector, With Wiper Assembly (wiper hub, arm, and rubber brush)
2180-000-NC	No Connector, With Wiper Assembly
2180-000-NCW	No Connector, No Wiper Assembly
2180-000-NH	No Housing, No Connector, With Wiper Assembly
2180-000-NHW	No Housing, No Connector, No Wiper Assembly

CABLES

*The Turbidity Plus 8-pin connector can only be mated with the following cables

2200-170	0.6 Meter Pigtail Cable with Locking Sleeve
105-0552	5 Meter Pigtail Cable with Locking Sleeve
105-0555	10 Meter Pigtail Cable with Locking Sleeve

Contact Us

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