Turbidity Plus[™]

with Integrated Wiper





Turbidity Plus[™] with Integrated Wiper

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 is linear up to 3,000 NTU delivering a voltage response 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. Deployable to 200 meters, Turbidity Plus is available in a variety of configurations to facilitate integration.

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
2185-000	500 NTU With Connector, With Wiper Assembly

CABLES

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

2200-1700.6 Meter Pigtail Cable with Locking Sleeve105-05525 Meter Pigtail Cable with Locking Sleeve

105-0555 10 Meter Pigtail Cable with Locking Sleeve

Contact Us

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RECOMMENDED CALIBRATION STANDARDS

8506	Amco Clear Turbidity Standard, 10 NTU
8507	Amco Clear Turbidity Standard, 100 NTU
8620	Amco Clear Turbidity Standard, 1,000 NTU
8621	Amco Clear Turbidity Standard, 3,000 NTU
Available at www.gfschemicals.com	

Turbidity Plus Highlights

- Integrated Wiper Package
- Low Power Consumption
- Easy-to-integrate Configurations
- Wide range of detection

Reliable Instruments for an Unreliable World

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Physical Specifications

Diameter: 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: 3 – 15 VDC

Maximum Peak Current: 100 mA

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

Power Requirements: @12V,140 mW (180 mW for 500 NTU) signal only @12V, 230 mW (280 mW for 500 NTU) while wiper rotates

3,000 NTU 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)

500 NTU Performance Specifications

Linearity: 0.99R²

MDL: 0.05 NTU

Range: 0 – 500 NTU

Precision: 0 – 50 NTU (+/- 0.05 NTU) 50 - 500 NTU (+/- 0.25 NTU)

Resolution: Datalogger Specific

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

Contact Us

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