

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 is linear 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.

Turbidity Plus Highlights

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

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: $T_{99} = < 3$ seconds
Power Requirements:
@12V, 140 mW signal only
@12V, 230 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

RECOMMENDED CALIBRATION STANDARDS (www.gfschemicals.com)

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



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