

# Turbidity Plus™

with Integrated Wiper



## 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: 0.99R<sup>2</sup>

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)

## 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 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

### 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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