

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 available in 2 linear ranges up to 500 or 3,000 NTU with minimum detection limits of 0.05 or 0.5 NTU respectively. It delivers 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.

Available Configurations

- With Connector, With Wiper Assembly (wiper hub, arm, and rubber brush)
- No Connector, With Wiper Assembly
- No Connector, No Wiper Assembly
- No Housing, No Connector, With Wiper Assembly
- No Housing, No Connector, No Wiper Assembly
- 500 NTU With Connector, With Wiper Assembly

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

PRODUCT HIGHLIGHTS

- Integrated Wiper Package
- Low power consumption
- Easy-to-integrate Configurations
- Wide range of detection

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3,000 NTU PERFORMANCE SPECIFICATIONS

Linearity: 0.99R² specifications

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 specifications

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)

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:

T₉₉ = <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

WHO WE ARE

Since 1972 Turner Designs has provided over 75,000 sensitive, reliable and easy-to-use fluorometers for environmental and industrial uses. We specialize in sensitive detection of materials with fluorescence properties. With distributors around the world, we provide free technical support for the life of our instruments.

