

Model AM-TBR



Description

These unique sensors have been designed to measure high turbidity and suspended solids based on either nephelometric measurement or back scattering technology.

The sensors are available with a number of options to match your specific application. Both submersion and in-line mounting options are available as well as Infrared and white light.

Through commands from the Personal Computer hyperterminal, the serial interface allows you to measure and check signal transmissions, scale selection, the analog or digital operating mode selection, and the zero

and sensitivity calibration.

Thanks to its 4-20 mA isolated output, the sensor can be directly connected to a PLC or data logger, and configured in NTU/FTU, g/l, % or other.

The sensor pairs perfectly with the AquaMetrix 2300 controller which provides the power, the measuring readout, 2 set-points, the alarm relay and the holding function for an external cleaning cycle.

The most common applications for this sensor include: water quality monitoring, municipal and industrial water treatment, and aquaculture.

Features

- Industrial-grade quality
- 4-20mA output
- Infrared or White light sources available
- Submersion or in-line versions available
- 2" tee available for in-line installation
- Flow cells available
- 12-24 VDC Loop Power (Infrared Only)
- 6 ranges of measurement available
- Connects with 2300 controller or PLC
- NTU and FTU models available
- Autoclean function on submersible models

Applications

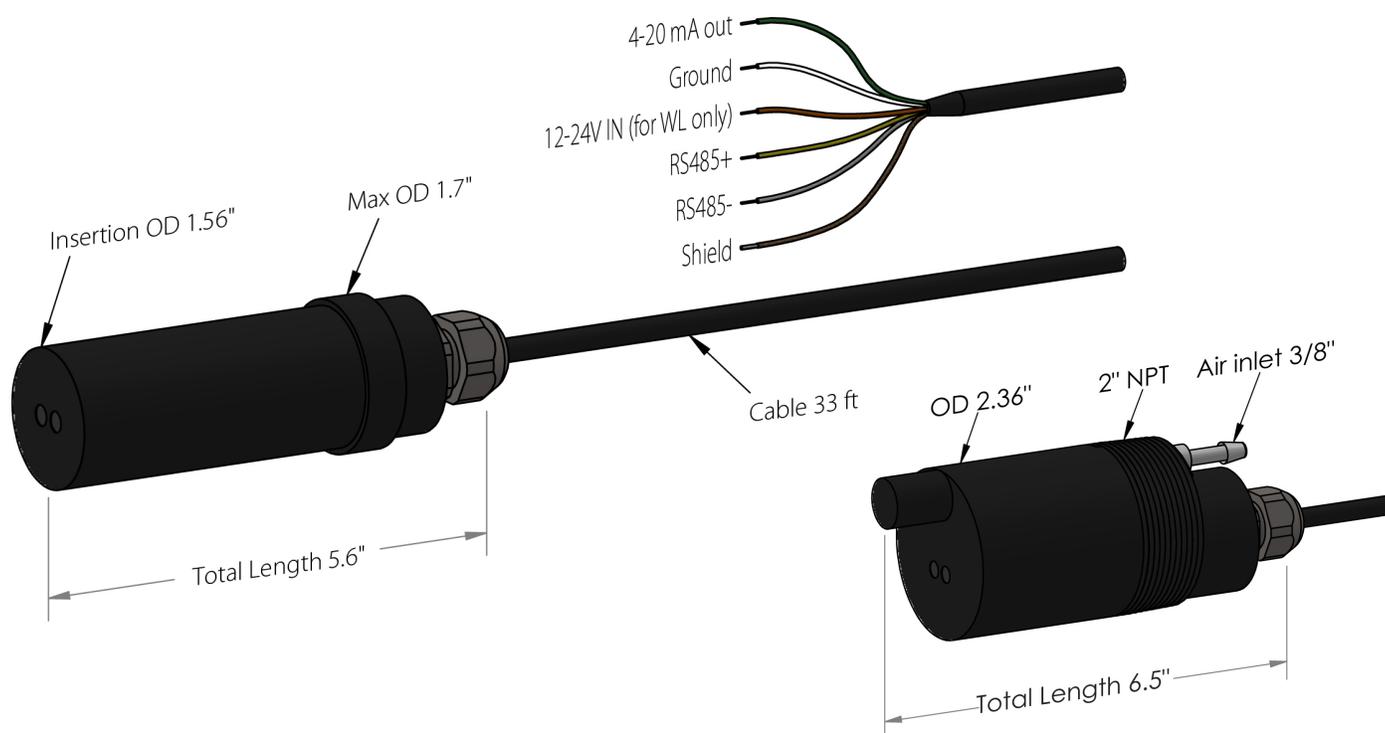
- Process Control
- Industrial and Municipal Water Treatment
- Circuit Board Manufacturing
- Mining
- Power Generation
- Food and Beverage
- Aquaculture
- Agriculture

Model AM-TBR Turbidity Sensor

Technical Data

| | | | |
|--------------------|--|--------------------------|---|
| Measuring Range | 0 to 400 NTU, 0 to 40 NTU, and 0 to 4 NTU 0 to 100 FTU, 0 to 1000 FTU, and 0 to 10000 FTU | Response Time | T90 Large Signal 40 seconds T90 Small Signal 120 seconds |
| Wetted Materials | PVC body, Acrylat Nitrile O Ring, Acrylic window | Light Source | Infrared or White Light (NTU only) |
| Power | 12 - 24 VDC (Loop Power on Infrared only) | Sensor Cable | Default length 33 ft (10m) dual coaxial, tinned wires |
| Temperature Limits | -5 to 50°C | Temperature Compensation | Automatic |
| Maximum Pressure | 6 bar max. at 20°C 1 bar max. at 25°C Submersible | | |
| Protection | IP68 | | |

Dimensions



Related Products

Controllers

AM-2300 Multi Input Controller

ACCESSORIES

AM-TBR-FC40 Flow Cell for 0-4 and 0-40 sensor

AM-TBR-FC400 Flow Cell for 0-400 Sensor

AM-TBR-TEE 2" Union Tee

Ordering Information

| | |
|-----------------|--|
| AM-TBR-RLN400 | Infrared lightsource, in-line mounting, 0-400 NTU range |
| AM-TBR-WLN400 | White lightsource, in-line mounting, 0-400 NTU range |
| AM-TBR-RSN400 | Infrared lightsource, submersion mounting, 0-400 NTU range |
| AM-TBR-WSN400 | White lightsource, submersion mounting, 0-400 NTU range |
| AM-TBR-RLF10000 | Infrared lightsource, in-line mounting, 0-10000 FTU range |
| AM-TBR-RSF10000 | Infrared lightsource, submersion mounting, 0-10000 FTU range |