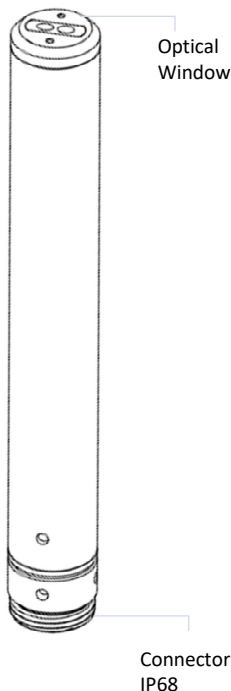


## Optical Turbidity Sensor



## Optical Turbidity Sensor



Broadsensor measures turbidity with a fiber optics sensor. An 860nm light from the emitter enters the sample via fiber and scatters off particles in the water. The scattered light at 90 degrees, enters a PD detector via fiber. This follows the nephelometric technique of measurement, and values are expressed in nephelometric turbidity units (NTUs). This follows the ISO7027 standard.

### Key Advantages:

- Fiber optics path
- Ambient light rejection technology
- Internal temperature compensation
- Easy to calibrate
- Low calibration solution volume, 50mL minimum
- Automatic temperature compensation

# Specification



## Technical Specifications

Measurement Method	scattered light at 90 degrees, ISO7027
Range	0.3~100NTU, 0.3~1000NTU, 1.0~4000NTU
Resolution	0.01NTU, 0.1NTU, 1.0NTU
Accuracy	+/-3% FS
Operating temperature	0~45°C
Storage Temperature	-10~50°C
Min. Detection Limit	0.3NTU
Warranty	1 year
Depth	IP68, 10m Max
Power	DC 5~12V 10mA (normal)
Output	RS485 and Modbus protocol
Materials	POM, PMMA, SS316
Dimensions	Length 170.5mm, diameter 22mm
Flow rate	< 3 m/s
Response time	Minimum 30s T90
Field life*	Sensor 2 years or greater
Recommended Calibration maintain Frequency *	Sensor 6 months

Note: \*Field life and calibration frequency dependent on site conditions.

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### Order info:

PN: 610210 0.3~1000NTU  
PN: 610210-1 0.3~100NTU  
PN: 610210-2 1.0~4000NTU  
PN: 810003 PUR cable