

Model OUS 31 Turbidity Sensor

Features

- Factory Calibrated Plug and Play Operation
- No Formazine Required for Start-Up
- Measurement Principal to DIN / ISO Standards
- Sapphire Measuring Window
- Optional Cleaning Wiper Blade
- Compact Design
- Enclosure Rating IP67 (NEMA 6) Waterproof
- Distance Between Sensor and Transmitter Up To 200 meters (656 /ft.)

Applications

- Potable Water
- Filter Efficiency and Backwash
- Surface Water Monitoring of Lakes, Rivers and Streams
- Water Recycle and Discharge
- Plant Effluent
- Phase Separation



Description

The OUS 31 Turbidity Sensor employs the Nephelometric 90° scattered light method with a measuring frequency in the near-infrared light range of 880 nm according to ISO 7027 / EN 27027. This guarantees a measurement of the turbidity value under standardized, comparable conditions. Digital filter functions including interference signal suppression and sensor self-monitoring increase measurement reliability. Every sensor in the FNU field of application is carefully factory calibrated using standard procedures. Other customer and substance specific calibration data can be stored.

Specifications

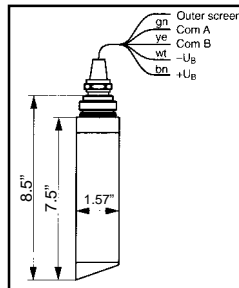
Measuring Ranges	0.000 to 9999 FNU, NTU 0.0 to 3000 ppm 0.0 to 3.0 g/l 0.0 to 200%
Wavelength	880 nm
Optical Reference	Photodiodes
Factory Calibration	Formazine Standard and SiO ₂
Temperature Sensor	NTC
Temperature Rating	-5 to 50°C (23 to 122°F)
Pressure Rating	6 bar @ 25°C (87 psi @ 77°F) 1 bar @ 50°C (14.5 psi @ 122°F)
Process Connection	1" Sensor, ¾" FNPT Flow Cell
Enclosure Rating (Waterproof)	IP68
Maximum Cable Length	200 meters (656 ft.)

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Ordering Information

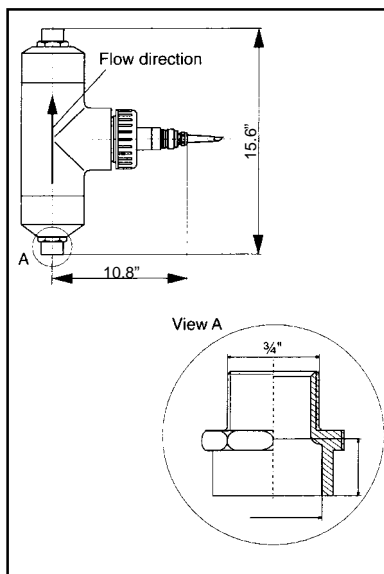
Model	Description
OUS – 31	Turbidity Sensor
Code	Description
A	Without Wiper
W	With Wiper
Code	Description
2	7 meters (23 ft.) Fixed Cable
4	15 meters (49 ft.) Fixed Cable
Code	Description
A	Without Flow Assembly
E	Flow Assembly
S	Flow Assembly with Air Bubble Trap
OUS 31-W4SNNN	Order Number Example

Dimensions



Flow Assembly

$\frac{3}{4}$ " Socket Weld Process Connections



Flow Assembly with Air Bubble Trap

$\frac{3}{4}$ " FNPT Process Connections

