

# TURBIDITY SENSOR



## FEATURES & BENEFITS

- IR optical measurement technology
- Measures turbidity or TSS
- Operator friendly, low maintenance design
- Range for wastewater to high purity applications
- Ultra low-power consumption
- ISO 7027 compliant

MUNICIPAL DRINKING WATER  
MUNICIPAL WASTEWATER  
INDUSTRIAL PROCESS WATER  
INDUSTRIAL WASTEWATER

WATER QUALITY  
MONITORING  
SOLUTIONS

## OVERVIEW

Real Tech's Turbidity probe sensor provides rapid real-time measurement of turbidity or total suspended solids (TSS) in water or wastewater. The sensor uses a low-cost optical technology for low maintenance operation with no consumables. The measurement principle is based on IR nephelometry / 850 nm and can be easily calibrated with a formazine standard solution. The compact and robust sensor is ideal for many applications from wastewater to high purity water

## MODELS

PRODUCT #	NAME	TURBIDITY RANGE	TSS RANGE
TURB1000	Real Turbidity Probe Sensor	0-4000 NTU in 5 ranges ( 0-50 NTU, 0-200 NTU, 0-1000 NTU, 0-4000 NTU )	0-4500 mg/L

Includes sensor, 50 ft communication cable, and manifold (unless purchased with pole mounting kit). Controller and automatic cleaning system sold separately.



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**MC Masters**  
Measurement & Control

**REALTECH**  
INC.

## SPECIFICATIONS

CHARACTERISTIC	TECHNICAL DATA
Model #	TURB1000
Measurement Principle	Diffusion of IR at 90°
Range	0-4000 NTU in 5 ranges ( 0-50 NTU, 0-200 NTU, 0-1000 NTU, 0-4000 NTU ) or 0-4500 mg/L TSS
Resolution	From 0.01 to 1, depending on the NTU or mg/L range
Accuracy	< 5% of the reading
Response Time	< 5 s
Temperature Measurement	Using an NTC thermistor
Temperature Measurement Range	0 to 60°C
Temperature Resolution	0.01
Temperature Accuracy	+/- 0.5°C
Measurement Refresh Rate	< 5 second maximum
Dimensions	Diameter: 27 mm, Length (not including cable): 170 mm
Materials	PVC, PMMA, POM C
Maximum Pressure	70 PSI
Electrical/Communication	From controller
Operating Temp.	0°C to 50°C (32 to 122°F)
Storage Temp.	-10°C to 60°C (14 to 140°F)
Weight	1 lb
Warranty	2-year limited warranty

\* Technical Specifications are subject to change without notice.

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