

TURBIDITY

OPTICAL DIGITAL LOW-RANGE TURBIDITY SENSOR - T700

Liquid Analysis

Measurement & Monitoring



DESCRIPTION

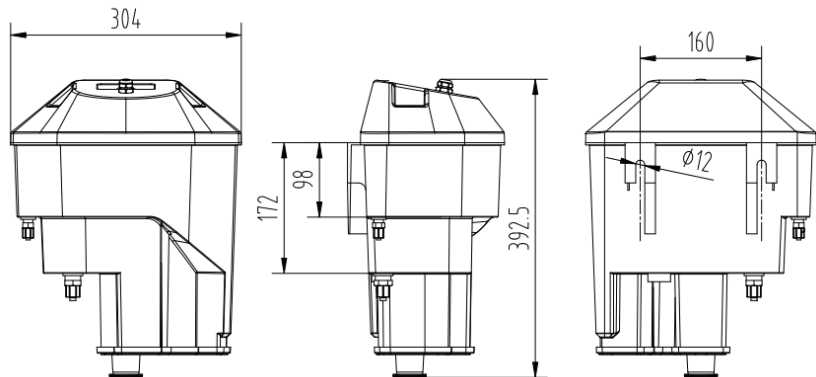
Turbidity is measured by directing tungsten or LED light from the sensor head assembly in the water sample chamber (water flow sampling chamber) of the T700. Light scattered at 90° by suspended particles in the sample is detected by the sensor's submerged photocell. The amount of light scattered is proportional to the amount of turbidity in the sample.

The T700 is capable of providing continuous and stable measurement that is suitable for low range of turbidity measurement. It is widely used in drinking water, water treatment plant, processing plant for semiconductor and food and beverage industry for processes in pre-filtration, post-filtration, direct drinking water system, industrial production circulating water, filter centres and recycling centres.

FEATURES

- ✓ Digital optical sensor with RS485 signal output
- ✓ 0.001 minimum measured value
- ✓ High accuracy $\pm 2\%$
- ✓ Stable data and good repeatability
- ✓ Fast response time
- ✓ Low maintenance cost
- ✓ CPA Approval Certificate

DIMENSION/DRAWING



I-SYSTEM MEASUREMENT
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TURBIDITY
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09-2021 I-SYSTEM 507013

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TECHNICAL FEATURES

Operating Condition

Range	0.001 to 100 NTU
Flow Rate	$300\text{ml/min} \leq X \leq 700\text{ml/min}$
Operating Temperature	0 to 45°C

Sensor Performance

Accuracy	$\pm 2\%$ or $\pm 0.015\text{NTU}$ of the measured value, when the range is 0.001-40NTU; $\pm 5\%$ of the measured value, when the range is 40-100NTU
Calibration	Standard solution calibration; Water sample calibration; Zero calibration

Electrical

Communication	RS485 (Modbus)
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Dimension and Protection

Dimension	Width 310 mm, Depth 210 mm, Height 410 mm
Protection	IP68/NEMA 6P
Sensor Material	ABS + SUS316 L (body) Acrylonitrile Butadiene Rubber (seal)
Pipe Fitting	Inlet Port: 1/4NPT Outlet Port: 1/2NPT
Signal Cable Length	Standard 3 meter (no extension)
Storage Requirement	
Storage Temperature	-15 to 60°C

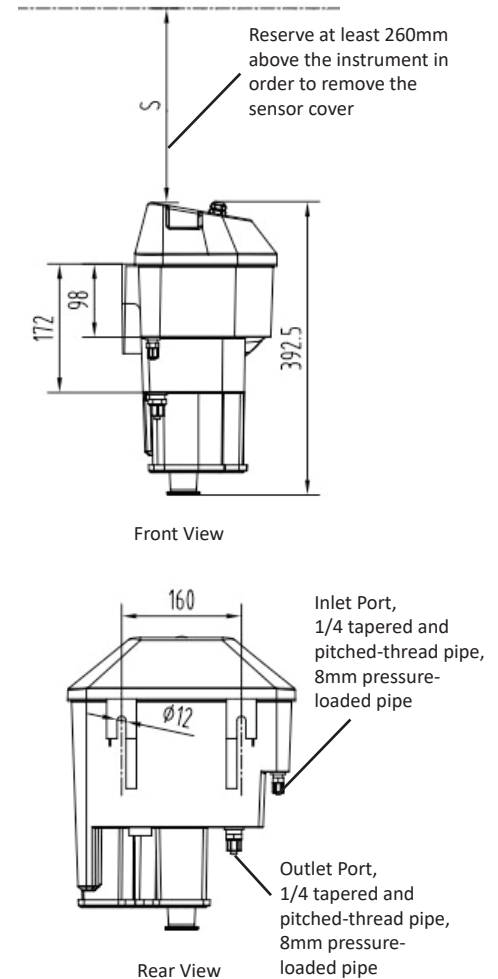


Figure 1
Installation drawing of T700 low-range turbidity sensor

