

CROSS SMART SENSOR

TR6: Low Range Turbidity

WITH COMPACT DESIGN OF LOW RANGE TURBIDITY FOR STABLE MEASUREMENT



GENERAL

The **TR6** Sensor is a measuring system best suited to continuously and consistently measure the turbidity using a nephelometric measurement of scattered light in accordance with ISO 7027. The TR6 sensor uses LED optical technology to provide an extremely stable, accurate, low maintenance sensor.

The sensor uses a measuring method that compares transmitted light with scattered light. The sensor is designed with due care to


the arrangement of the optical system. These design makes the sensor less susceptible to disturbing light.

- Prevention of Dew Condensation System Inside
- Built-In Bubble Removal Design
- LED Light Source for Long Life
- IP65 Dust and Water Proof Structure

APPLICATIONS

- Drinking water - plants effluent & distributing network
- Condensation water
- Water filtration monitoring
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Conform to the following EU Directives & Standards:

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|  | Low Voltage Directive 2014/35/EU |
| | Electromagnetic Compatibility Directive 2014/30/EU |
| | RoHS 2 Directive 2011/65/EU |
| | EN 61010-1:2010; EN 61326-1:2013 |

OPTICAL TECHNOLOGY

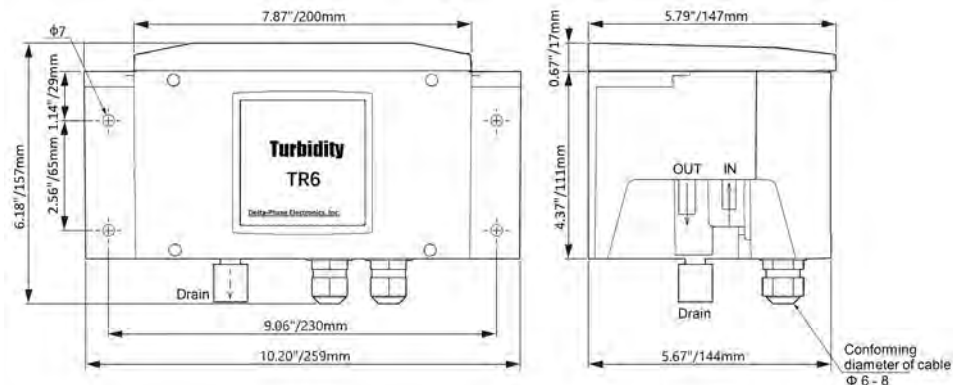
The TR6 Sensor employs photo detection technology that consists of a light source and a light detector. When the incident light is beamed at the particles in the sample, it is scattered and measured by the detector. The amount of light scattering depends on the amount of material in the sample, the wavelength of light used, and the size and composition of the suspended solids. In accordance with ISO 7027/EN 27027 requirements, the TR6 exploits a long life near infrared (880nm) LED and the 90° scattered light method to assure accurate measurement of turbidity values.

SPECIFICATIONS

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| Measuring Principle | 880nm 90 Degree Scattered Light Method |
| Light Source | LED |
| Measuring Range | 0.0001 to 9.9999 NTU/FNU 0.001 to 100.000 NTU/FNU |
| Accuracy | ±2% of Reading or 0.02 NTU @ 0 to 10 NTU ±5% of Reading @10 to 100 NTU |
| Source voltage | DC 24V±10% Powered by GDC |
| Consumption current | Normal time: 100 mA or less Startup time: 600 mA or less |
| Digital interface | RS485 Modbus RTU |
| Measuring water flow rate | 100 to 200 mL / min |
| Measuring water temperature | 0 to 40 °C (No freezing) |
| Operating temperature | -20 to 50 °C Humidity 95% R.H. or less |
| Main materials | PP-GF AES SUS316L |
| Dimension | Approx. 157(H) x 259(W) x 147(D) mm |
| Weight | Approx. 2 kg |
| Protective construction | IP65 |

Specifications subject to change without notice.

DIMENSION



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