

FTS
DIGITAL TURBIDITY SENSOR
DTS-12



Key Features

- Measures temperature as well as turbidity
- Metal components are stainless steel and marine-grade stainless steel O-ring sealed for effective watertight security
- Extended duty cycle wiper motor for years of service
- Heavy-duty stainless steel universal joint for wiper mechanism
- Thick-walled marine-grade stainless steel

Technical Specifications

Sensor Type:

Temperature Encapsulated thermistor

Humidity Optical nephelometer (sidescatter)

Range: 0 to 1,600 NTU (nominal)

Accuracy (Turbidity)*:

Accuracy (@ 25°C): ±2% of reading + 0.2 NTU (0-399 NTU)

±4% of reading (400-1,600 NTU)

Resolution: 0.01 NTU

Temp. coefficient (0-40 °C): < -0.3% / °C

Accuracy (Temperature): ±0.2 °C

Supply Voltage Range: 9.6V to 16V

Current Consumption (Typical):

Standby: 0.35 mA

Operating: 50 mA

Motor wiping: 200 mA

Depth Rating: 98 ft. (30m)

Wipe Time: 5 seconds (nominal)

Operating Temperature: +32°F to 104°F (0°C to +40°C)

Communications Protocol: SDI-12, version 1.3

Measurements Returned: The following are computed from 100 instantaneous samples taken: Mean, Variance, Median, BES, Min, Max, Temperature

Sample Rate: 20 Hz

Dimensions: 12 in. (30.48cm) x 2 in. (5.08cm)

Weight: 23.3 oz (604g)

Cable Options:

Fixed cables: Custom lengths

Connectorized cables: 60 ft (18.3m) / 100 ft (30.5m)

*excluding formazin batch accuracy of ±5%