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## DTS-12 Technical Specifications

- Measures temperature as well as turbidity
- Metal components are stainless steel and anodized aluminum
- 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 aluminum shell

### Sensor type:

Turbidity:	Optical nephelometer (sidescatter)
Temperature:	Encapsulated thermistor

**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
Temperature coefficient (0 - 40°C):	< -0.3% / °C

**Accuracy (temperature):** ±0.2 °C

**Supply voltage range:** 9.6V to 16V

### Current consumption (typical):

	0.35 mA
Standby:	50 mA
Operating:	200 mA
Motor wiping	

**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:** Instantaneous turbidity, from 100 samples taken, the following are computed: 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' (18.3 m) / 100' (30.5 m)