



2600 TURBIDITY SENSOR With Lens Protection Device



APPLICATIONS

- River/stream water quality
- Irrigation runoff water quality
- Sediment transportation
- Aquaculture
- Waste water quality monitoring
- EPA compliance monitoring
- Dam monitoring

FEATURES

- Optical backscatter technology
- Unique lens protection device - keeps optics clean
- Linearity better than 2% of FS
- Excellent temperature stability
- Large dynamic range: 0 - 2000 NTU
- Low power compact design with infra-red optics
- 3 Year Warranty



WATER MONITORING SOLUTIONS

TECHNICAL SPECIFICATIONS

RANGE	Standard choice of 0 to 100, 250, 500, 1000 and 2000 NTU. Other ranges are available
ZERO & FULL SCALE SETTING	± 0.05% of full scale setting
TYPE	Optical backscatter
POWER	10-15 volts unregulated 500mA or 0.3mAh during reading
ACCURACY	Linearity / hysteresis ± 2% of full scale Temperature <0.05% / °C of FS over the range 0 to 30°C
RESPONSE TIME	2 seconds to full accuracy
OUTPUT OPTIONS	Analogue 4-20mA current loop (3 wire current loop, 600ohms max).
SURGE PROTECTION	Secondary surge protection - can absorb 0.6J of energy

OPERATION PRINCIPLE

The ESS 2600 Turbidity Sensor transmits a divergent infrared light beam into the water. The proportion of light reflected by suspended solids is measured by the sensor and output as a proportional 4-20mA signal. Sophisticated temperature compensation and ambient light filtering are performed to provide an accurate and stable output. When the sensor is powered by switched 12 volts, the Lens Protection Device is automatically opened to expose the optical lens to the water. The lens is covered ALL OTHER TIMES. Typically, the lens is exposed for less than 0.1% of total operational time.

The ESS turbidity sensor is a miniature backscatter nephelometer that detects turbidity and suspended solids in water. It responds linearly to turbidity levels spanning more than three decades from potable water to sediment-laden rivers. An innovative Lens Protection Device (LPD) covers the lens between readings and greatly reduce lens contamination. Substantially less frequent maintenance is required. The 2600 is factory calibrated in Nephelometric Turbidity Units (NTU) to a range specified on order. The electrical output is an industry standard 4-20mA signal. Rugged and simple design allows reliable and accurate turbidity measurements to be made at low cost.



DIMENSIONS

