

MLSS / SS

DIGITAL SUSPENDED SOLIDS SENSOR - S800

Liquid Analysis

Measurement & Monitoring



DESCRIPTION

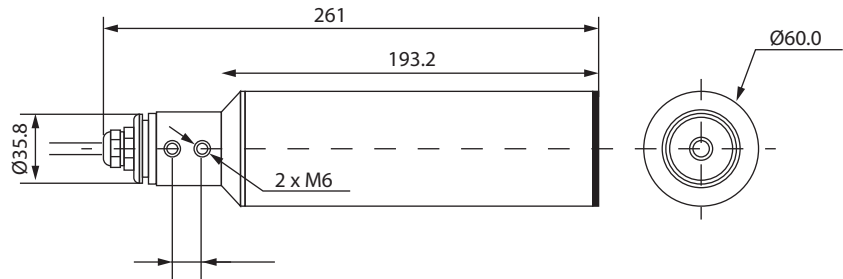
The S800 Series online digital suspended solids sensor is designed to measure the level of suspended particles by examining the scattering light effects of particles suspended in the water. The cleaning scraper (optional) offers an automatic cleaning function to minimize the maintenance of the sensor.

The S800 is completed with standard digital signal output, integrating and networking with other equipment without controller. With rapid response, low maintenance cost, real-time online measurement, the S800 is suitable for wide range of applications such as monitoring of sludge concentration of sewage treatment plant, industrial process water and waste water treatment.

FEATURES

- ✓ Digital optical sensor with RS485 signal output
- ✓ Infrared light scattering technique
- ✓ Stable data and good repeatability
- ✓ Built-in self-diagnosis function
- ✓ Strong anti-interference ability
- ✓ Self-cleaning function (optional)
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



I-SYSTEM MEASUREMENT
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TECHNICAL FEATURES

Operating Condition

Range	0.01 to 20000 mg/L, 0.01 to 45000 mg/L, 0.01 to 120000 mg/L
Flow Rate	≤2.5m/s, 8.2ft/s
Pressure Range	≤0.4Mpa
Measuring Temperature	0 to 45°C

Sensor Performance

Accuracy	Less than ±5% of the measured value (depending on the homogeneity of sludge)
Repeatability	±2%
Calibration	Sample calibration; Slope calibration

Electrical

Power Supply	AC: 85-500 V AC (50/60Hz) DC: 9-36 V DC
Communication	RS485 (Modbus)

Dimension and Protection

Dimension	Diameter 60 mm, Length 261 mm
Protection	IP68/NEMA 6P
Sensor Material	SUS316L
Signal Cable Length	Standard 10 meter (Maximum 100 meter)

