

BIOCHEMICAL OXYGEN DEMAND

DIGITAL SPECTROMETER BOD SENSOR - B900

Liquid Analysis

Measurement & Monitoring



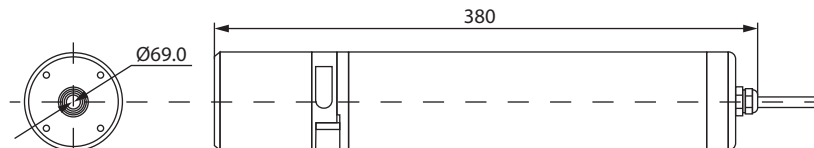
DESCRIPTION

The B900 series digital spectrometer BOD (Biochemical Oxygen Demand) sensor uses the Spectral Absorption Coefficient (SAC 254 nm) to measure the content of soluble organic compound in the water. This method allows continuous monitoring without any reagents. The B900 is a direct immersion probe, completed with standard digital signal output, integrating and networking with other equipment without controller. This spectrometer method developed to measure trend of continuous reading BOD , less accurate compare to colorimetric method. With rapid response, low power consumption, low maintenance cost, real-time online measurement, the B900 is suitable for wide range of application such as wastewater treatment plant (inlet, outlet), aquacultural, river and ocean surface water continuous monitoring.

FEATURES

- ✓ Digital sensor with RS485 signal output
- ✓ Spectral Absorption Coefficient (SAC 254 nm) method
- ✓ Direct and continuous monitoring
- ✓ No chemical reagents
- ✓ No secondary pollution
- ✓ Automatic cleaning function
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



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TECHNICAL FEATURES

Operating Condition

Range 0 to 1500 mg/L BOD (2mm)
0 to 750 mg/L BOD (5mm)
0 to 60 mg/L BOD (50mm)

Measuring Temperature 0 to 45°C

Pressure Range ≤0.4Mpa

Sensor Performance

Accuracy ±5%

Repeatability ±2%

Resolution 0.01 mg/L

Electrical

Communication RS485 (Modbus)

Dimension and Protection

Dimension Diameter 69 mm, Length 380 mm

Protection IP68/NEMA 6P

Sensor Material SUS316L

Signal Cable Length Standard 10 meter (Maximum 100 meter)

Storage Requirement

Storage Temperature -15 to 50°C

