

CHEMICAL OXYGEN DEMAND

DIGITAL SPECTROMETER COD SENSOR - C900

Liquid Analysis

Measurement & Monitoring



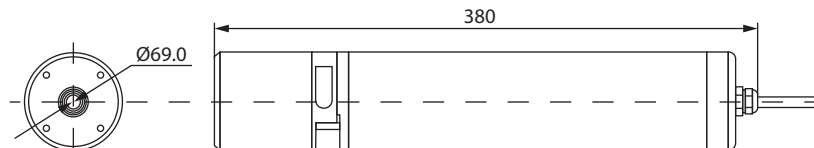
DESCRIPTION

The C900 series digital spectrometer COD (Chemical 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 C900 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 COD, less accurate compare to colorimetric method. With rapid response, low power consumption, low maintenance cost, real-time online measurement, the C900 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



I-SYSTEM MEASUREMENT
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TECHNICAL FEATURES

Operating Condition

Range 0 to 2000 mg/L COD (2mm)
0 to 1000 mg/L COD (5mm)
0 to 90 mg/L COD (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

