

CONDUCTIVITY

DIGITAL CONDUCTIVITY SENSOR - C500

Liquid Analysis

Measurement & Monitoring



DESCRIPTION

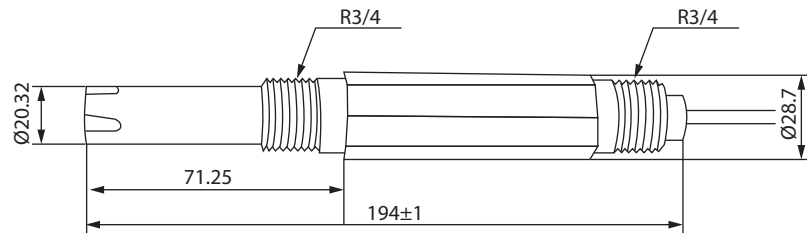
The C500 series digital conductivity sensor uses glass platinum electrode. The conductivity is determined by the ohmic formula based on the voltage and current values. With the output isolation design, the C500 sensor can perform reliably without electrical safety issues. The built-in protection circuit, strong anti-interference feature ensures good repeatability and stable measurements.

The C500 is suitable for wide range of application such as water and wastewater treatment plant, chemical and biological plant, hydrology water surface monitoring, swimming pool, fish ponds, etc.

FEATURES

- ✓ Digital sensor with RS485 signal output
- ✓ Strong anti-interference ability
- ✓ Comprehensive protection circuit design
- ✓ Good repeatability and stability
- ✓ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING



I-SYSTEM MEASUREMENT
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TECHNICAL FEATURES

Operating Condition

Range 10-2000 $\mu\text{S}/\text{cm}$
Measuring Temperature 0 to 80°C
Pressure Range $\leq 0.6\text{Mpa}$

Sensor Performance

Accuracy $\pm 1.5\%$ FS
Response time ≤ 10 seconds (Reach 95% of the end value) (After stirring)
Temperature: $\pm 0.5^\circ\text{C}$

Electrical

Power Supply 12 VDC
Communication RS485 (Modbus)

Dimension and Protection

Dimension Diameter 30 mm, Length 195 mm
Protection IP68/NEMA 6P
Sensor Material PPS
Glass platinum electrode
Signal Cable Length Standard 10 meter (Maximum 100 meter)
Mounting Thread 3/4" thread

