

Conductivity System Specifications



Connect this Conductivity sensor to a PLC for seamless integration with industrial control systems. Use any computer to display data, calibrate and customize the measurement without an intermediate analyzer electronics box. A LD500 local display can be used if desired. Sensor heads are pre-calibrated and can be replaced or exchanged with any other type of sensor without taking the system down. Save space, time and money.

- High Resolution Measurement
- Pre-calibrated (no field calibration required)
- Plug & play sensor heads
- 0 to 2 S/cm range
- Direct data reporting
- Plug & play industrial communications adapters

Measurement System Performance

Range: 0 to 2,000,000 uS/cm (2 S/cm)
 Resolution: 4.5 significant digits
 Accuracy: 0.1% of reading
 Step Response Time: 90% in 30 seconds
 Note: Typical at 25°C
Performance unaffected by cable length

Units of Measure

Measurement Units: *µS/cm, TDS, %, MΩ • cm*
 Temperature Units: °C, °F

Operational Environment

CPVC Sensor Head

Temperature : Range -5°C to Maximum Pressure :85 psi @ Maximum Flow 10 ft/second Rate:

Calibration

Zero: In dry air
 Span: 1 point
 Temperature: 1 and 2 point
 Note: Conductivity and temperature are precalibrated at the factory

Power Requirements

Voltage Range: 10 to 30 VDC
 Maximum Power: 200 Typical Power: 120 Note: Class II DC power supply required

Other Configuration Options

Sensor Filter: 0 to 100 seconds
 Temperature Filter: 0 to 100 seconds
 Concentration Table: User 10-point

Construction

Cell Constants: 0.1 for Resistivity
 1.0 and 5.0 for Conductivity
 O-Rings: *Viton® (other materials available)*
 Sensor Head Material: *CPVC*
 Weight: *1.2 lbs*

Approvals and Ratings

Immunity & Emissions: CE (EN61326 and EN61326:1998)
 Safety: CE (EN 61010-1) UL 508
 Hazardous Locations: UL Class I, Division 2