

AdvantEDGE Contacting Conductivity



- 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

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.

Measurement System Performance

Range: 0 to 2,000,000 $\mu\text{S/cm}$ (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

Operational Environment

CPVC Sensor Head

Temperature Range: -5°C to 50°C

Maximum Pressure: 85 psi @ 50°C

Maximum Flow Rate: 10 ft/second

Power Requirements

Voltage Range: 10 to 30 VDC

Maximum Power: 200 mW

Typical Power: 120 mW

Note: Class II DC power supply required

Construction

Cell Constants: 0.1 for Resistivity

1.0 and 5.0 for Conductivity

O-Rings: Viton® (other materials available)

Electrode Material: Titanium (Standard) or 316 Stainless Steel

Weight: 1.2 lbs

Units of Measure

Measurement Units: $\mu\text{S/cm}$, TDS, %, $M\Omega \cdot \text{cm}$

Temperature Units: °C, °F

Calibration

Zero: In dry air

Span: 1 point

Temperature: 1 and 2 point

Note: Conductivity and temperature are precalibrated at the factory

Other Configuration Options

Sensor Filter: 0 to 100 seconds

Temperature Filter: 0 to 100 seconds

Concentration Table: User 10-point

Approvals and Ratings

Immunity & Emissions: CE (EN61326 and EN61326:1998)

Safety: CE (EN 61010-1) UL 508

Hazardous Locations: UL Class I, Division 2

AdvantEDGE Toroidal Conductivity



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Note: Typical at 25°C

Performance unaffected by cable length

	PEEK® Sensor Head	CPVC Sensor Head
Temperature Range:	-5°C to 50°C	-5°C to 50°C
Maximum Pressure:	150 psig @ 50°C	85 psig @ 50°C
Maximum Flow Rate:	10 ft/second	10 ft/second

Power Requirements

Voltage Range: 10 to 30 VDC

Maximum Power: 200 mW

Typical Power: 120 mW

Note: Class II DC power supply required

Construction

O-Rings: Viton® (other materials available)

Sensor Head Material: CPVC, Peek®

Weight: 1.2 lbs (Peek®, Ryton® or CPVC)

2.6 lbs (with 316 Stainless Steel interface module)

Units of Measure

Measurement Units: $\mu\text{S/cm}$, TDS, % conc.

Temperature Units: °C, °F

Calibration

Zero: In dry air

Span: 1 point

Temperature: 1 and 2 point

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