

Conductivity/Resistivity Measurement System

CondSys:Cell



Features:

- Two Electrode measurement
- High performance construction
- Pre-calibrated
- Plug & play sensor heads
- ✤0 to 500 and 0-5000 µS/cm range
- Offered in a variety of materials
- Direct data reporting (24-bit)
- Plug & play industrial communications adaptors

Benefits:

- No field calibration required
- *Retains calibration in the head
- Sensor head replacement without powerdown
- Variable mounting options
- Auto temperature compensation
- Either direct connect to PLC or use withAV38/Aquapro controllers.

This conductivity or resistivity sensor is available in three different cell constants. It has SS /Ti electrodes and a choice of Peek or CPVC body masterial. It is ideal for use in the "cleaner" industrial applications and potable water. The sensor + data stick may be directly connected to site PLC using a variety of comms protocols or used in conjunction with the AV38 or Aquapro transmitter/displays as stand alone units. The sensor heads are factory calibrated and the calibration is stored in the head enabling simple replacement or interchange.

Applications:

- Food processing
- Pharmaceutical
- Water production
- Reverse osmosis filters
- Desalination
- Deionization
- Ultrafiltration
- Distilled water
- Semiconductor
- Power generation
 - Steam production
 - Condensate return
 - Boiler blowdown
 - Cooling towers
- Leak detection in heat exchangers
 - Demineralizers



System Specification



System Specificati	ion	ENVITECH
Measurement System Performance	Range 0.01 Cell: 18.2 MΩ • cm to 50 μS/cm 0.1 Cell: 0 to 500 μS/cm 1.0 Cell: 0 to 5000 μS/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 ca	able length
Operational Environment	PEEK Sensor Head Temperature Range: -5°C to 95 °C Maximum Pressure: 150psig @ 95 °C Maximum Flow Rate: 10 ft/sec	CPVC Sensor Head Temperature Range: -5°C to 75 °C Maximum Pressure: 150psig @ 75 °C Maximum Flow Rate: 10 ft/sec
Power Requirements	Voltage Range: 10 to 30 VDC Maximum Power: 200 mW Typical Power: 120 mW Note: Class	s II DC power supply required
Construction	Cell Constants 0.01 for resistivity 0.1 and 1.0 for conduct Electrode Material: Titanium, 316 stainle steel	SS Data stick Material: 316 SS, CPVC, PEEK Weight 1.2 lbs (PEEK or CPVC)
Not	te: Conductivity and temperature are pre-calibrated at the	e factory 2.6 lbs (316 Stainless Steel)
Units of Measure	Measurement Units: µS/cm, TDS, %, M Temperature Units: ℃, ℉	2 • cm
Calibration	Zero: In dry air Span: 1 point Temperature: 1 point Note: Temperatur	e can be entered manually
Temperature compensation option	Linear: % per °C	
Other Configuration Options	Sensor Filter:0-100 secondsTemperature Filter:0-100 secsConcentration table:User 10 point	
Approvals and Ratings	Safety: cULus Listed; 367G E303570	9/336/EEC: CISPER 11, EN61000 (-4-2,-4-3,-4-4,-4-6, 4-8)
Sensor Mounting Options		, ,
	1 Inch Immersion Mounting with Junction Box (7foot extension is standard)	Hand Rail Mounting Sensor Dimensions
1.5 Inch Ball Valve	1 Inch T mounting 1.5 Inch Union Mounting	10.66 in [275.8 mm]
Display/Control Options		
AV38 controller	AquaPro controller	
See separate sheets for details of above controllers		
Supplied by: Envitech Ltd. Unit S7, Capital Business Park, Parkway, Cardiff, CF3 2PU		

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