Thermo Scientific AquaSensors AnalogPlus series for challenging process applications

Thermo Scientific AquaSensors AnalogPlus

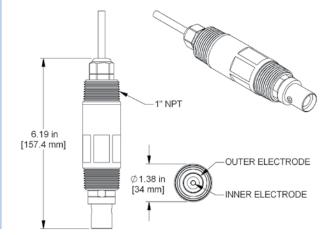
Conductivity/Resistivity Sensors - 1.0 Inch



- Two-electrode conductivity sensors designed for continuous use in the most demanding industrial applications
- 0 to 5000 μS/cm measurement range (1.0 cell)
- 0 to 18.2 MΩ cm measurement range (0.01 cell)
- Titanium electrodes (0.01, 0.1 and 1.0 cell constants)
- Offered in PEEK for high temperature applications
- · Offered in CPVC where higher cost materials are not required

Markets/Applications

- Food processing
- Pharmaceutical
- Water production
- Reverse osmosis filters
- Ultrafiltration
- Distilled water
- Semiconductor
- Power generation



Engineering Specifications

- The conductivity sensor shall have two electrodes manufactured to exacting tolerances using durable metals.
- 2. The sensor shall have hex-shaped wrench flats to facilitate mounting, and shall be constructed of a material with exceptional chemical resistance and mechanical strength. This material shall enable the sensor to be installed in metal fittings without leakage usually caused by heating and cooling cycles when dissimilar materials are threaded together.
- The sensor shall have 1 inch NPT threads on both ends to mount into a standard 1 inch pipe tee, a 1.5 inch union mounting, or immersion hardware assembly.
- The built-in electronics of the sensor shall be completely encapsulated and 0-ring sealed for protection from moisture and humidity.
- The sensor shall have an integral temperature sensor to automatically compensate measured values for changes in process temperature.
- The sensor shall be Thermo Scientific AquaSensors AnalogPlus conductivity.



Thermo Scientific AquaSensors AnalogPlus Conductivity Sensor

• Global support — with experience that comes from supporting our customers for over 35 years throughout the world, our water quality specialists and customer support teams offer a quick, thorough and professional response to any problem encountered.

• Focus on user benefits — we work closely with you to define your needs, and ensure you are using the monitor in a way that improves your bottom line. For more information, contact your local water quality specialists or visit: www.thermo.com/processwater.

AnalogPlus Conductivity Sensor Specifications

Measurement System Performance [†]	Range: 0.01 Cell: 18.2 MΩ • cm to 50 mS/cm 0.1 Cell: 0 to 500 mS/cm 1.0 Cell: 0 to 5000 mS/cm Resolution: 4.5 significant digits Accuracy: 0.1% of reading Step Response Time: 90% in 30 seconds
Operational Environment	PEEK Sensor Head Temperature Range: -5 °C to 95 °C Maximum Pressure: 150 psig @ 95 °C Maximum Flow Rate: 10 ft/second
	CPVC Sensor Head Temperature Range: -5 °C to 75 °C Maximum Pressure: 150 psig @ 75 °C Maximum Flow Rate: 10 ft/second
Construction	Cell Constants [‡] : 0.01 for resistivity, 0.1 and 1.0 for conductivity Electrode Material: Titanium or 316 stainless steel O-rings: Viton® (other materials available) Sensor Material: PEEK or CPVC Weight: 0.5 lbs (PEEK or CPVC)
	WEIGHT U.J IDS (I LLK UI GI VG)

Conductivity Sensor Ordering Information

Part No.	Description
SC-b-c-x-z-u-R	Conductivity Sensor
Body Material (b)	2 = CPVC 3 = PEEK
Electrode Type (c)	1 = Titanium 2 = 316 Stainless Steel
Sensor Tip (x)	A = 0.01 Cell (Resistivity) B = 0.1 Cell (Conductivity) C = 1.0 Cell
Electrode Spacing (z)	1 = Concentric
Cable Length (u)	1 = 10 feet 2 = 20 feet 3 = 30 feet

Accessories Ordering Information

Part No.	Description
Local Displ	ay Interface
AV88	Universal Analyzer; 1/4 DIN, Outputs, Relays, Digital Communications Options
C 99	Conductivity Analyzer, 1/2 DIN, Outputs, Relays
Cap Replac	ements
SBC01	Storage Cap With Sponge
Conductivit	ty Solutions - 500 mL bottles
SOL1000	1000 μS/cm Calibration Solution
SOL2000	2000 μS/cm Calibration Solution
SOL5000	5000 μS/cm Calibration Solution
Mounting H	lardware
MH3022	1 Inch Tee Mounting, CPVC
MH3011	1 Inch Tee Mounting, 316 Stainless Steel
MH3042	1.5 Inch Union Mounting, CPVC
MH3041	1.5 Inch Union Mounting, 316 Stainless Steel
MH1112	1.5 Inch Ball Valve, Low Pressure, CPVC
MH1111	1.5 Inch Ball Valve, Low Pressure, 316 Stainless Steel
MH1122	1.5 Inch Ball Valve, High Pressure, CPVC
MH1121	1.5 Inch Ball Valve, High Pressure, 316 Stainless Steel
MH1242	Hand Rail Mounting Assembly, Swivel/ Immersion, PVC
MH3083	1 Inch Immersion Mounting with Junction Box, PVI (7 foot extension is standard)

available upon request. Consult factory for details.



Thermo Scientific AV88 Universal Analyzer

Connects to any AnalogPlus sensor using plug-in module. 2 line display and 7 key navigation. Data reporting with up to 2 current outputs. 2 Form C relays. Digital communications.

©2008 Thermo Fisher Scientific Inc. All rights reserved. ® Viton is a registered trademark of E. I. Du Pont De Nemours & Company. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.



North America

166 Cummings Center Beverly, MA 01915 USA Toll Free: 1-800-225-1480 Tel: 1-978-232-6000 Dom. Fax: 1-978-232-6015 Int'l Fax: 978-232-6031

Europe

P.O. Box 254, 3860 AG Nijkerk Wallerstraat 125K, 3862 BN Nijkerk, Netherlands Tel: (31) 033-2463887 Fax: (31) 033-2460832

Asia Pacific

Blk 55, Ayer Rajah Crescent #04-16/24, Singapore 139949 Tel: 65-6778-6876 Fax: 65-6773-0836





