

AquaSensors AnalogPlus Conductivity/Resistivity Sensors

Sanitary style for high purity applications

For challenging process applications

**Thermo Scientific™ AquaSensors™ AnalogPlus™
Conductivity/Resistivity Sensors - sanitary style for
high purity applications**

Key features

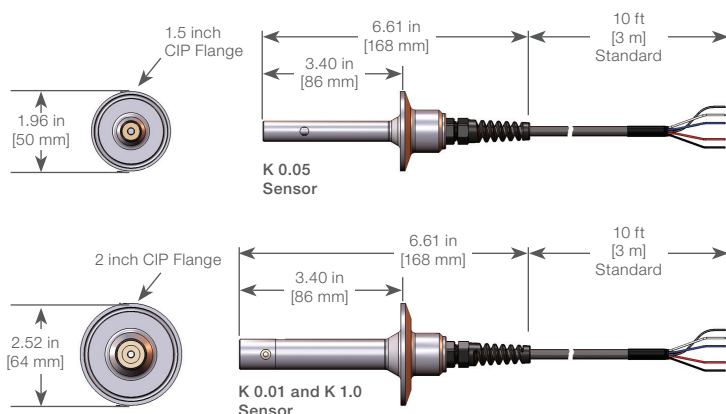
- Two-electrode conductivity sensors designed for continuous use in high purity and CIP applications
- 0 to 18.2 MΩ μS/cm measurement range
- 316 Stainless steel electrodes with PEEK™ insulators
- Available in 1.5" tri-clamp fitting designs
- Pt1000 RTD temperature compensation element
- Designed for up to 150 psi (1034 KPa) @ 212°F (100°C)



Markets and applications

- Reverse Osmosis Filters
- Ultrafiltration
- CIP (Clean-In-Place)
- Food & Beverage
- Distilled Water
- Semiconductor
- Power Generation
- Water Production

AquaSensor AnalogPlus conductivity sensors - sanitary style



Engineering specifications

1. The two-electrode contacting conductivity sensor has enhanced performance design characteristics and be designed for continuous use in high purity and CIP applications:
 - Manufactured to exacting tolerances using high quality, durable materials.
 - Include a Pt1000 RTD temperature compensation element for fast response to changes in process temperature with $\pm 0.1^{\circ}\text{C}$ accuracy.
 - Tested to exacting standards, ensuring highest possible measurement accuracy.
2. The sensor measures theoretical pure water ($0.057\ \mu\text{S}/\text{cm}$ or $18.2\ \text{M}\Omega \cdot \text{cm}$).
3. The sanitary (CIP) flange style sensor has 316 stainless steel electrodes with PEEK insulators, cell constant of 0.05, and 1½-inch diameter Tri-clamp flange. It mounts using standard sanitary mounting hardware.
4. The sensor has a choice of extension cable lengths from 3 m (10 ft.), with transmission distances up to 300 ft (91 m) via extension cable to any Thermo Scientific analyzer/controller.
5. The sensor is the AnalogPlus BC-Series from Thermo Scientific AquaSensors.

Product specifications

AquaSensors AnalogPlus Conductivity/Resistivity Sensor

Available cell constants	0.05
Operating temperature	-4°F to 257°F (-20°C to 125°C)
Maximum operating pressure	150 psi @ 212°F (1,034 KPa @ 100°C)
Maximum flow rate	10 ft/sec (3 m/sec)
Measuring range	0 to 50 $\mu\text{S}/\text{cm}$
Resolution	4 or 5 significant digits
Temperature sensor	PT1000 RTD Temperature Element
Wetted materials	Sensor body: 316 stainless steel
	Electrodes: 316 stainless steel
	Insulator: PEEK
	Seals: Viton™
Standard sensor cable length	10 ft (3 m)
Maximum transmission distance	300 ft (91 m)



AquaSensors 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.

AquaSensors AnalogPlus Conductivity/Resistivity 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 enable you to use the monitor in a way that improves your bottom line. For more information, contact your local water quality specialists or visit: thermofisher.com/water

AquaSensors AnalogPlus Conductivity/Resistivity Sensor

Model number

BC Contacting Conductivity Sensor in sanitary style bodies. 316 stainless steel electrodes with 3A finish with sanitary body types. Cable connects to any AV88 Universal analyzer, Alpha COND 2000W analyzer or most compatible conductivity analyzers. Integral temperature element for compensation.

Body type

2 1.5" Tri-clamp (1.5' flange for K0.05 only)

Reserved category

Cell constant

E 0.05 Cell Constant (Resistivity to 50 µS/cm Range)

Reserved category

Cable length

10 10 feet

30 30 feet

BC	2	1		AnalogPlus contacting conductivity Cat. No.
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Ordering information

AquaSensors AnalogPlus Sensor

Description	Cat. No.
AV88 Universal Analyzer	
2 outputs, 2 relays, PID. AC power. ¼ DIN	AV88CB0C2
Alpha COND 2000W Analyzer	
2 outputs, 3 relays. AC power. ½ DIN	TSCONCTP2000W

Accessories ordering information

AquaSensors AnalogPlus Sensor accessories

Description	Cat. No.
Conductivity calibration solutions	
1000 µS/cm, Conductivity calibration solution, 500 mL bottle	SOL1000
2000 µS/cm, Conductivity calibration solution, 500 mL bottle	SOL2000
Mounting hardware	
Junction box: For extension cables Terminal strip included	JBOX01
Extension cable: AnalogPlus extension cable	APECxx; xx=ft

Other conductivity sensors and mounting hardware options available upon request. Consult factory for details.

Australia: (613) 9757-4300 **In Australia:** (1300) 735-295 **China:** (86) 21-6865-4588

Germany: (49) 6184-90-6321 **India:** (91) 22-4157-8800 **Japan:** (81) 045-453-9175

North America: 1-978-232-6000 Toll Free: 1-800-225-1480 **Singapore:** (65) 6778-6876

Find out more at thermofisher.com/water

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