

AquaSensors AnalogPlus Differential ORP Sensor

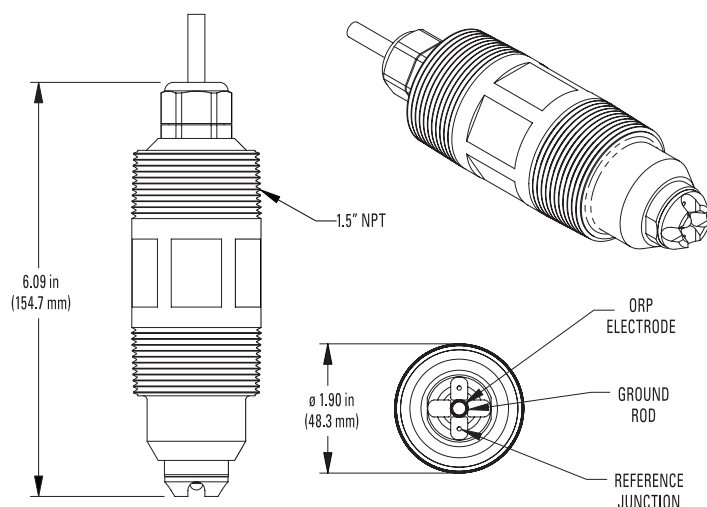
For challenging process applications

Thermo Scientific™ AquaSensors™ AnalogPlus™ Differential ORP Sensor

Key features

- 1.5 inch NPT mounting
- Differential ORP sensor designed for continuous use in the most demanding industrial applications
- Large reference chamber reduces calibration frequency
- Replaceable salt bridge extends sensor life
- Offered with NTC300 or PT1000 temperature elements
- Electrode protection options
- Available in choice of materials for a wide range of applications

Engineering drawing



Markets and applications

- Wastewater treatment
- Metal finishing
- Bleaching pulp
- Disinfection control



AquaSensors AnalogPlus Differential ORP Sensor – 1.5 in.

Engineering specifications

1. The ORP sensor has a differential electrode technique design using two electrodes to compare the process value to a stable internal reference standard buffer solution. The standard electrode exhibits non-flowing and fouling-resistant characteristics.
2. The sensor has hex-shaped wrench flats to facilitate mounting, and is constructed of a material with exceptional chemical resistance and mechanical strength. This material enables the sensor to be installed in metal fittings without leakage usually caused by heating and cooling cycles when dissimilar materials are threaded together.
3. The sensor has 1.5 inch NPT threads on both ends to mount into a standard 1.5 inch pipe tee, a 2 inch union mounting, or immersion hardware assembly.
4. The built-in electronics of the sensor are completely encapsulated and O-ring sealed for protection from moisture and humidity.
5. The integral temperature sensor automatically compensates measured values for changes in process temperature.
6. The sensor includes a titanium ground electrode (standard) to eliminate ground loop currents in the measuring electrode.

AquaSensors AnalogPlus Differential ORP 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: thermofisher.com/water

Product specifications

AquaSensors AnalogPlus Differential ORP Sensor

Measurement system performance*	Range: -2100 mV to +2100 mV
	Resolution: 0.1 mV
	Accuracy: 0.1% of reading
	Step response time: 90% in 30 seconds
Operational equipment	PEEK™ sensor head
	Temperature range: -5°C to 95°C
	Maximum pressure: 100 psig @ 95°C
	Maximum flow rate: 10 ft/second
	CPVC sensor head
	Temperature range: -5°C to 75°C
	Maximum pressure: 85 psig @ 75°C
	Maximum flow rate: 10 ft/second
Construction	Process Electrodes: Platinum
	Ground Rod: Titanium (standard)
	O-rings: Viton™ (other materials available)
	Sensor Material: PEEK or CPVC
Approvals	Weight: 0.5 lbs. (PEEK or CPVC)
	Meets CE requirements for heavy industrial use

*Note: Typical at 25°C with 20 feet of cable



AquaSensors AV88 AnalogPlus 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.

Ordering information

AquaSensors AnalogPlus Differential ORP Sensor

Description	Cat. No.		
ORP sensor 1.5	FB-b-t-x-y-z-u		
Body material (b)	2	=	CPVC
	3	=	PEEK
Electrode type (t)	1	=	Platinum
Sensor tip (x)	A	=	Protected
Temperature element (y)	8	=	NTC300
	9	=	PT1000
Ground rod (z)	E	=	Titanium (standard)
Cable length (u)	1	=	10 feet
	3	=	30 feet

Ordering information

AquaSensors AnalogPlus Differential ORP Sensor Accessories

Description	Cat. No.
Salt bridge replacements	
PEEK protected	SBS01-1
CPVC protected	SBS03-1
Storage cap with sponge	SBC01
ORP solutions	
ORP storage solution, 60 mL bottle	RCS04
Standard cell solution, 60 mL bottle	RCS01
Standard cell solution, 500 mL bottle	RCS01-500
200 mV calibration, 500 mL bottle	ORPSOL200
600 mV calibration, 500 mL bottle	ORPSOL600
Mounting hardware	
2.0 Inch union mounting, CPVC	MH2032
Hand rail mounting assembly, swivel/immersion, PVC	MH2242
2 Inch Ball valve hardware, low pressure, CPVC	MH1172-FP

Consult factory for additional configurations and accessories

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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