Thermo Scientific AquaSensors AnalogPlus

Differential ORP sensor - 1.0 inch

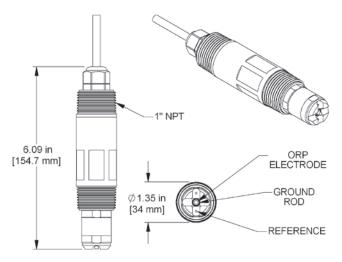
Thermo Scientific[™] AquaSensors AnalogPlus[™] series for challenging process applications.

AquaSensors AnalogPlus™ ORP 1.0 Sensor

- 1 inch NPT mounting
- Differential ORP sensor designed for continuous use in the most demanding industrial applications
- Replaceable salt bridge extends sensor life
- Offered with NTC300 or PT1000 temperature element
- Electrode protection options
- Available in choice of materials for a wide range of applications

Markets/Applications

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





Engineering Specifications

- The ORP sensor shall be of differential electrode technique design using two electrodes to compare the process value to a stable internal reference solution. The standard electrode shall have non-flowing and fouling-resistant characteristics.
- 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.
- 3. The sensor shall have a 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. Sanitary tri-clamp mounting optional.

- The built-in electronics of the sensor shall be completely encapsulated and O-ring sealed for protection from moisture and humidity.
- 5. The sensor shall have an integral temperature sensor to measure temperature independently.
- The sensor includes a titanium ground electrode (standard) to eliminate ground loop currents in the measuring electrode. 316 SS optional.
- The sensor shall be the Thermo Scientific AquaSensors AnalogPlus Differential ORP.



Product Specifications

Thermo Scientific AquaSensors AnalogPlus ORP 1.0 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.thermoscientific.com/processwater.

	DI . /				.	e	
Analog	PIUS (JKP '	1.0S	ensor	speci	ncar	lions

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 Environment	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 or gold Ground Rod: Titanium (standard), 316 stainless steel or Hastelloy [®] C Membrane: FEP Teflon [®] O-rings: Viton [®] (other materials available) Sensor Material: PEEK or CPVC Weight: 0.5 lbs (PEEK or CPVC)			
Approvals	Meets CE requirements for heavy industrial use			

[†]Note: Typical at 25 °C with 20 feet of cable



Thermo Scientific AV88 Universal Analyzer

Connects to any AnalogPlus Sensor using plug-in module. 2 line display and 7 key navigation.



Thermo Fisher Scientific Water Analysis Instruments Chelmsford, MA USA Quality Management System Registered to ISO 9001

thermoscientific.com/processwater

© 2013 Thermo Fisher Scientific Inc. All rights reserved. Hastelloy is a registered trademark of Haynes International, Inc. Teflon and Viton are registered C E trademarks of E. I. Du Pont De Nemours & Company. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries

Water Analysis Instruments

North America Toll Free: 1-800-225-1480 Tel: 1-978-232-6000 info water@thermo.com

Netherlands Tel: (31) 033-2463887 info.water.uk@thermo.com

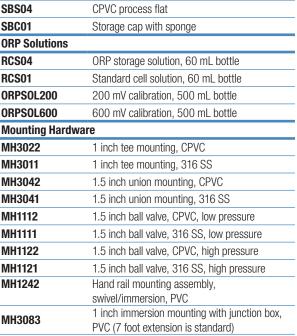
China Tel: (86) 21-68654588 wai.asia@thermofisher.com India Tel: (91) 22-4157-8800 wai.asia@thermofisher.com

Singapore Tel: (65) 6778-6876 wai.asia@thermofisher.com Japan Tel: (81) 045-453-9175 wai.asia@thermofisher.com

Australia Tel: (613) 9757-4300 in Australia (1300) 735-295 InfoWaterAU@thermofisher.com



1 = 10 feet
2 = 20 feet
3 = 30 feet
ssories Ordering Information
Description
face
Universal analyzer; 1/4 DIN, outputs, relays,
digital communications options
pH/ORP analyzer; ½ DIN, outputs, relays
ements
PEEK protected
PEEK process flat
CPVC protected
CPVC process flat
01 111



AnalogPlus ORP 1.0 Sensor Ordering Information

Description

2 = CPVC

3 = PEEK

2 = Gold

Accessories Or

1 = Platinum

A = Protected

B = Process flat

8 = NTC300/P99 analyzer

9 = PT1000/AV88 analyzer

D = 316 stainless steel **E** = Titanium (standard) **F** = Hastelloy C

ORP 1.0 Sensor

Part No.

SR-b-t-x-y-z-u

Body Material (b)

Electrode Type (t)

Sensor Tip (x)

Temperature

Ground Rod (z)

Cable Length (u)

Local Display Interface

Salt Bridge Replacements

Part No.

AV88

P99

SBS01 SBS02

SBS03

Element (y)

Consult factory for other sensor mounting options.