Thermo Scientific AquaSensors AnalogPlus series for challenging process applications

Thermo Scientific AquaSensors AnalogPlus

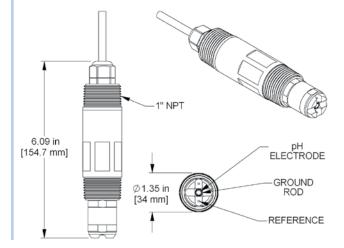
Differential pH Sensor - 1.0 Inch



- 1 inch NPT mounting
- Differential pH sensor designed for continuous use in the most demanding industrial applications
- 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

Market/Applications

- Wastewater treatment
- Pharmaceutical
- Chemical & petrochemical
- High purity water
- Food processing
- Metal finishing





Engineering Specifications

- The pH sensor shall be a differential electrode technique design using two electrodes to compare the process value to a stable internal reference standard buffer 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.
- 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. Sanitary Tri-clamp mounting is optional.
- 4. 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.
- 6. The sensor shall include a titanium ground electrode (standard) to eliminate ground loop currents in the measuring electrode. 316SS is optional.
- 7. The sensor shall be the Thermo Scientific AquaSensors AnalogPlus pH.



Thermo Scientific AquaSensors AnalogPlus pH 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.thermo.com/processwater.

AnalogPlus pH 1.0 Sensor Specifications

Measurement System Performance [†]	Range: 0 to 14 pH Resolution: 0.01 pH 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: "G", "HF", low temperature, pure water or high temperature glass
	Ground Rod: Titanium (standard), 316 stainless steel or Hastelloy C
	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 2	25°C with 20 feet of cable

AnalogPlus pH 1.0 Sensor Ordering Information

Part No.	Description	
rait Nv.	Describuon	
SP-b-t-x-y-z-u	pH Sensor 1.0	
Body Material (b)	2 = CPVC 3 = PEEK	
Electrode Type (t)	1 = Standard Glass 2 = HF Glass 3 = Low Temperature	4 = Pure Water 5 = High Temp.
Sensor Tip (x)	A = Protected B = Process Flat	
Temperature Element (y)	8 = NTC300/P99 Analyzer 9 = PT1000/AV88 Analyzer	
Ground Rod (z)	D = 316 Stainless SteelE = Titanium (Standard)F = Hastelloy C	
Cable Length (u)	1 = 10 feet 2 = 20 feet 3 = 30 feet	

Accessories Ordering Information

Part No.	Description	
Local Displ	ay/Controller Interface	
AV88	Universal Analyzer; 1/4 DIN, Outputs, Relays, Digital Communications Options	
P99	pH/ORP Analyzer; 1/2 DIN, Outputs, Relays	
Salt Bridge	Replacements	
SBS01	PEEK Protected	
SBS02	PEEK Process Flat	
SBS03	CPVC Protected	
SBS04	CPVC Process Flat	
SBC01	Storage Cap with Sponge	
pH Solution	ıs	
RCS03	pH Storage Solution, 60 mL Bottle	
RCS01	Standard Cell Solution, 60 mL Bottle	
PHS0L4	4 pH Buffer, 500 mL Bottle	
PHS0L7	7 pH Buffer, 500 mL Bottle	
PHS0L0	10 pH Buffer, 500 mL Bottle	
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, CPVC, Low Pressure	
MH1111	1.5 Inch Ball Valve, 316 SS, Low Pressure	
MH1122	1.5 Inch Ball Valve, CPVC, High Pressure	
MH1121	1.5 Inch Ball Valve, 316 SS, High Pressure	
MH1242	Hand Rail Mounting Assembly, Swivel/Immersion, PVC	
MH3083	1 Inch Immersion Mounting with Junction Box, PVC (7 foot extension is standard)	



Thermo Scientific AV88 Universal Analyzer

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

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