

Thermo Scientific AquaSensors AnalogPlus Dissolved Oxygen (ppm) Sensor

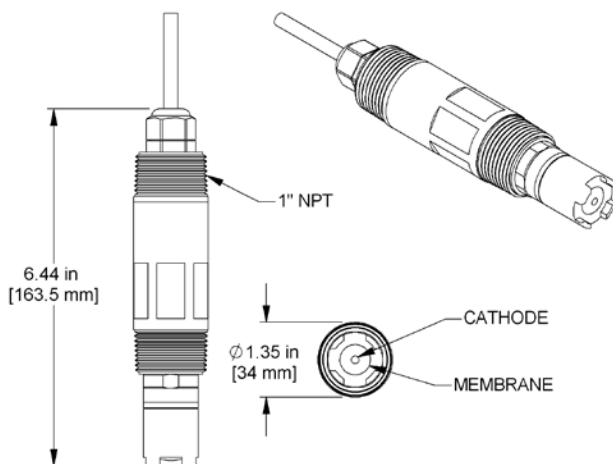


AquaSensors AnalogPlus™

- Polarographic sensor design for continuous use in the most demanding industrial applications
- Replacement membrane caps for long life
- 0 to 40 ppm measurement range
- 0.01 ppm resolution

Markets/Applications

- Municipal and industrial wastewater
- Aquaculture
- Brewing
- Fermentation
- Bio-processing
- Many applications also exist in chemical process, food and dairy, pulp and paper, and other process industries.



Engineering Specifications

1. The D.O. sensor shall use three-electrode polarographic Clark cell technology consisting of a silver reference electrode, a silver anode and a gold cathode.
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 1 inch NPT threads on both ends to mount into a standard 1 inch pipe tee, a 1.5 inch union mounting, or immersion mounting hardware.
4. 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 automatically compensate measured values for changes in process temperature.
6. Replaceable membrane caps shall have a pre-installed 50 micron thick gas permeable membrane.
7. The sensor shall be the Thermo Scientific AquaSensors AnalogPlus D.O.

Thermo Scientific AquaSensors AnalogPlus D.O. 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.

Dissolved Oxygen Specifications Information

Measurement System Performance†	Range: 0 to 40 ppm, 0–200% saturation Resolution: 0.01 ppm Accuracy: 1% of reading Step Response Time: 90% in 90 seconds
Operational Environment	Temperature Range: –5 °C to 50 °C Maximum Pressure: 65 psig @ 50 °C Maximum Flow Rate: 10 ft/second
Construction	Process Electrodes: Gold cathode, silver anode, silver reference (3 electrode polarographic Clark cell) Membrane: FEP Teflon® O-rings: Viton® (other materials available) Sensor Material: PEEK Weight: 0.5 lbs (PEEK)
Approvals	Meets CE requirements for heavy industrial use

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

Dissolved Oxygen Ordering Information

Part No.	Description
SD-b-t-x-y-z-u	D. O. Sensor
Body Material (b)	3 = PEEK
Electrode Type (t)	1 = Gold/Silver
Sensor Tip (x)	A = Protected B = Process Flat C = Face Seal
Filling Solution (y)	1 = Standard
Membrane (z)	A = FEP Teflon B = FEP with SS Mask
Cable Length (u)	1 = 10 feet 2 = 20 feet 3 = 30 feet



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.

Accessories Ordering Information

Part No.	Description
Local Display Interface	
AV88	Universal Analyzer 1/4 DIN, Outputs, Relays, Digital Communications Options
D. O. Membrane Replacements	
DMR03	PEEK Protected
DMR03M	PEEK Protected with Protected Mask
DMR04	PEEK Face Seal
DMR04M	PEEK Face Seal with Protected Mask
DMR08	PEEK Process Flat
DMR08M	PEEK Process Flat with Protected Mask
SBC01	Storage Cap With Sponge
D.O. Solutions - 500 mL bottles	
RD0K1	Electrolyte (ppm)
Wash Hardware	
MH1142	Wash Head Assembly
Mounting Hardware	
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
MH1252	Hand Rail Mounting Assembly, Swivel Mount with Ball Float
MH3083	1 Inch Immersion Mounting with Junction Box, PVC (7 foot extension is standard)

Consult factory for additional configurations and accessories.