

# AquaSensors AnalogPlus Dissolved Ozone Sensor

For challenging process applications

## Thermo Scientific™ AquaSensors™ AnalogPlus™ Dissolved Ozone Sensor

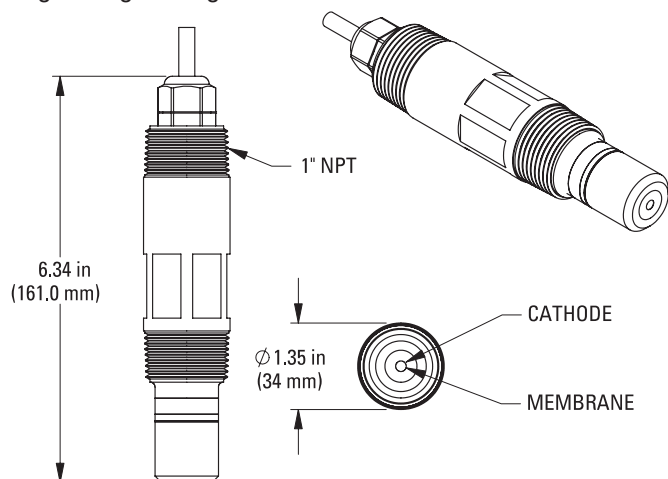
### Key features

- Polarographic sensor designed for continuous use in the most demanding industrial applications
- Replacement membrane caps for long life
- 0 to 10 ppm measurement range
- 0.01 ppm resolution
- Cost effective solutions for use with AV88 universal analyzer



AquaSensors AnalogPlus Dissolved Ozone Sensor

### Engineering drawing



### Markets and applications

- Drinking water treatment
- Wastewater treatment
- Food and beverage sanitization
- Bottled water production
- Packaged water systems
- Pulp and paper bleaching
- Pharmaceutical
- Cooling water
- Semiconductor wash water

## Engineering specifications

1. The ozone sensor uses three-electrode polarographic Clark cell technology consisting of a silver reference electrode, a silver anode and a gold cathode.
2. Hex-shaped wrench flats help to facilitate mounting, and are constructed of a material with exceptional chemical resistance and mechanical strength, enabling 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 inch NPT threads on both ends to mount into a standard 1 inch pipe tee, a 1.5 inch union mounting, sanitary tee, or low-flow assembly.
4. The built-in electronics of the sensor are completely encapsulated and O-ring sealed for protection from moisture and humidity.
5. An integral temperature sensor automatically compensates measured values for changes in process temperature.
6. Replaceable membrane caps have a pre-installed 50 micron-thick gas permeable membrane.
7. The sensor is the Thermo Scientific AquaSensors AnalogPlus dissolved ozone.

## AquaSensors AnalogPlus Dissolved Ozone 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](https://thermofisher.com/water)

## Product specifications

### AquaSensors AnalogPlus Dissolved Ozone Sensor

	Range: 0 ppm—10 ppm
Measurement system performance*	Resolution: 0.01 ppm
	Accuracy: 2% of reading
	Step response time: 90% in <90 seconds
Operational environment	PEEK™ Sensor Head
	Temperature range: -5°C to 50°C
	Maximum pressure: 65 psig @ 50°C
Construction	Three Electrode Polarographic: Clark cell; gold cathode, silver anode, silver reference
	Membrane Cap Assembly (Replaceable): PTFE
	O-rings: Viton™
	Sensor head material: PEEK
Approvals	Weight: 0.5 lbs.
	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 Dissolved Ozone Sensor

Description	Cat. No.		
Dissolved ozone sensor	SZ-b-t-x-y-z-u		
Body material (b)	3	=	PEEK
Electrode type (t)	1	=	Gold/silver
Sensor tip (x)	B	=	Process flat
Filling solution (y)	1	=	Standard
Membrane (z)	A	=	PTFE
Cable length (u)	1	=	10 feet
	3	=	30 feet

## Ordering information

### AquaSensors AnalogPlus Dissolved Ozone Sensor accessories

Description	Cat. No.
Ozone replacement caps	
PEEK process flat	DMR08-Z
Storage cap with sponge	SBC01
Ozone solutions	
Ozone electrolyte, 60 mL bottle	RD0K2
Mounting hardware	
1 inch tee mounting, CPVC	MH3022
1 inch tee mounting, 316 SS	MH3011
1.5 inch union mounting, CPVC	MH3042
1.5 inch union mounting, 316 SS	MH3041
1.5 inch ball valve, CPVC, low pressure	MH1112
1.5 inch ball valve, 316 SS, low pressure	MH1111
Hand rail mounting assembly, swivel/immersion, PVC	MH1242
1 inch immersion mounting with junction box, PVC (7 foot extension is standard)	MH3083
Flow chamber with mounting plate and PVDF fittings	FC001
Flow chamber with mounting plate and 316 stainless steel fittings	FC002

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](https://thermofisher.com/water)

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