

*Self Cleans With Air For Better,
More Accurate Performance*



Auto-Clean
Dissolved Oxygen Monitor

Our Sensor Makes Sense.

We equipped the Auto-Clean monitor with a galvanic sensor that uses a durable 5 mil Teflon membrane, and built it to perform in the most demanding applications with minimal operator attention. A modular design lets you easily remove the sensing element for service, reducing maintenance costs.

The sensor's principle of operation is simple. Oxygen diffuses through a Teflon membrane and reduces on the surface of a working electrode, generating a small electrical current proportional to D.O. concentration. An RTD temperature element measures water temperature and corrects the sensor signal for its effect. The result is a D.O. measurement that's accurate over an operating range of 0-50°C.

The Heart of the System.

The Auto-Clean monitor's electronic controls make operation easy, accurate, and reliable:

- LCD display of D.O. concentration.
- Isolated analog output.
- Microprocessor-based electronics, with operator interface through five switches on the front panel.
- A security code to protect calibration and control settings from unauthorized tampering.
- Contact outputs that include two programmable control relays with variable deadband and time delay functions.
- Alarm relay that actuates on either low or high dissolved oxygen content, or on the failure of the control system to maintain proper D.O. concentration.
- Internal compressor provides high pressure air for cleaning system.

System Installation.

The installation of an Auto-Clean D.O. system is quick and simple. A special mounting adapter connects the sensor to standard 1" conduit or pipe, and another adapter provides secure connection of the pipe to a standard handrail system.

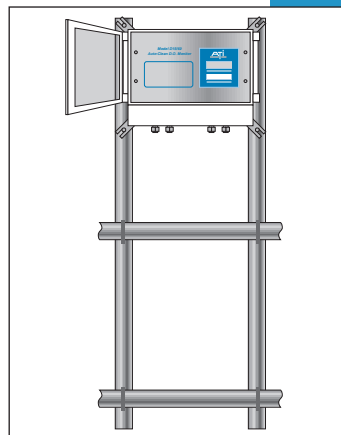
The NEMA 4X monitor and cleaner package may be wall mounted or connected to a standard handrail using vertical supports supplied as part of a handrail mounting kit. If desired, the D.O. monitor may be located up to 1000 feet from the cleaning system, which is always located within 50 feet of the sensor.



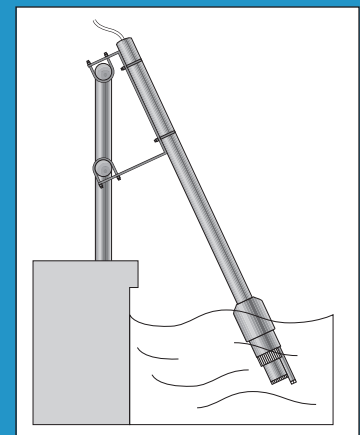
Replaceable Sensing Module



Auto-Clean Sensor



Monitor Mounting



Sensor Mounting Assembly

Model D15/60 Dissolved Oxygen Monitor Specifications

Display:	16 character alpha-numeric liquid crystal display with back light.	Control Relays:	Two SPDT, 5A., 230 VAC resistive, with programmable setpoints.
Measurement Range:	Programmable 0-20.00 or 0-40.00.	Control Relay Function:	On/off, variable deadband (0-2 PPM) variable time delay (0-60 sec.)
Sensitivity:	0.01 PPM	Electrical Connections:	To plug-in terminal blocks.
Repeatability:	±0.05 PPM	Power:	120 VAC, 50/60 Hz. 220 VAC 50/60 Hz. optional 200 VA max. without heater 300 VA max. with heater
Linearity:	0.5%	Electronic Enclosure:	NEMA 4X ABS with polycarbonate cover.
Response Time:	90% in <180 seconds with 5 mil membrane.	Operating Temperature:	Electronics: -20° to +50°C, (-40°C with heater) Sensor: 0-50°C.
Cleaner Function:	High pressure air cleaning system from internal compressor.	Operating Humidity:	0-99% non-condensing.
Cleaning Frequency:	Programmable from 2-24 hours.	Sensor Temperature Compensation:	Automatic -2°C to +52°C.
Cleaner Sentry Alarm:	Optional SPST, 5A relay configurable for NO or NC operation.	Sensor:	Galvanic membraned sensor.
Analog Output:	Two isolated 4-20 mA outputs, 600 ohms maximum.	Sensor Materials:	Noryl and stainless steel.
Output Range:	Programmable for any range from 0-1 PPM to 0-20 PPM (40 PPM in high range unit).	Sensor Cable:	25-ft. standard, max. 1000 ft.
		Accessories:	Spare membranes, electrolyte, and o-ring kit standard.

Ordering Information: Model D15/60 - E - F - G - H

Suffix E - Enclosure	
1 - Panel Mount, Separate Cleaner	Suffix H - Cleaner Sentry Alarm
2 - NEMA 4X Wall Mount	1 - Without alarm
	2 - With alarm
Suffix F - Power	Accessories
1 - 120 VAC, 50/60 Hz.	00-0139 Pipe brackets for NEMA monitor
2 - 220 VAC, 50/60 Hz.	00-0624 Sensor mounting kit
Suffix G	00-0629 Sensor mounting kit with rag shedding adapter
1 - No heater	
2 - Heater/Thermostat	



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