

Inexpensive Dissolved Ozone Monitor

Inline Dissolved O3 sensor

The DOM-1 is an inexpensive inline dissolved ozone sensor. 0 - 2.00 PPM range with 0.01 PPM resolution. Low Cost, Rugged Dissolved Ozone Monitor.



Features

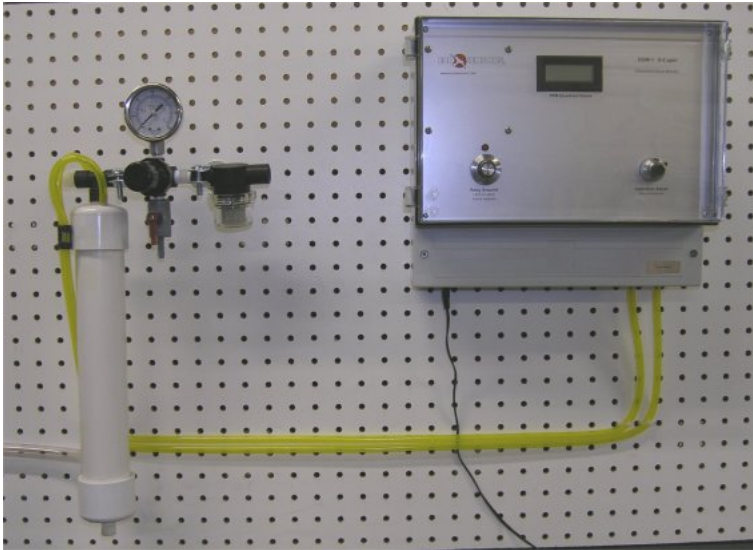
- Can handle high pressure water streams
- Specific to Ozone
- Low cost and easily replaceable parts
- Set-point relay for alarm or system control
- 4-20 mA output to PLC or other remote readouts and controllers
- Accurate ozone levels with even discolored or dirty water

Product ID: DOM-1
Stock: Yes
Price: \$1,950.00

Specifications

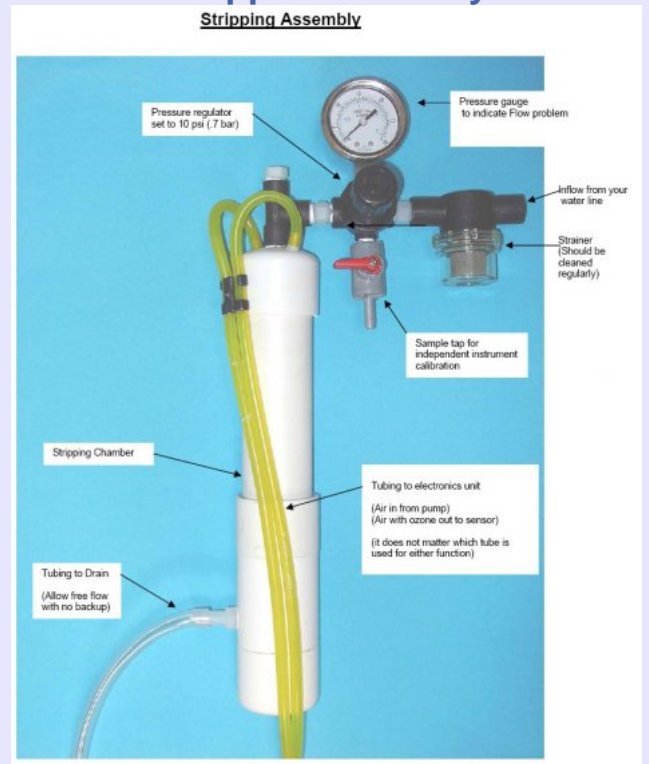
Accuracy:	Better than 20%; 10% typical
Readout:	0.03 - 2.00 ppm in 0.01 ppm increments
Outputs:	NO/NC contacts & 4-20mA
Relay Ratings:	5 Amps at 250V AC
Lowest reading:	0.03 ppm
Protection Specifications:	IP 52. Enclosure is polycarbonate. Front cover is clear polycarbonate
Warm-Up:	1 hour
Response Time:	20-30 seconds
Supply Water Pressure:	15 - 90 PSI
Water Temperature Range:	20-30 deg C (unless recalibrated for a specific temperature)
Power Source:	12 VDC 800 mA [AC Adapter included]
Requirements:	
	Water feed at > 14 psi (1 bar)
	0.15 liters/minute (3 gallons/hour) flow to drain or reclaim
Calibration:	Sensor must be calibrated monthly to a coloremtric standard on a weekly basis for best accuracy.
Note:	DOM-1 can measure ozone accurately up to 150 PPM when used with a specially calibrated UV-100 Ozone Analyzer! - Call for details
Warranty:	1 year

DOM-1 Setup



The DOM-1 has two separate components, the stripper assembly and the monitor. This shows both units setup on a wall. Total setup time is less than 1 hour.

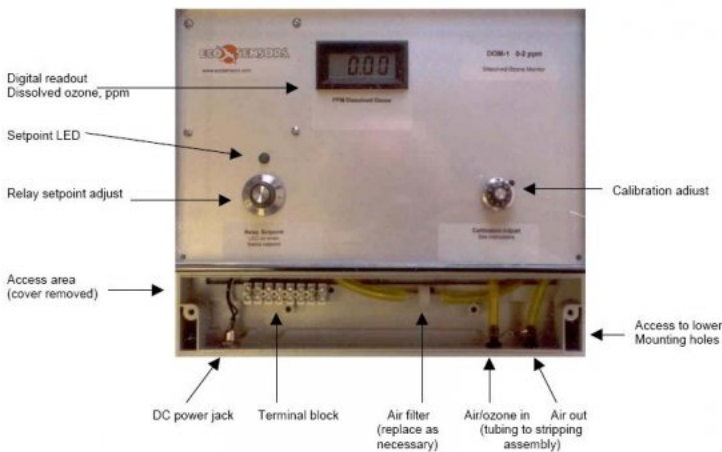
Stripper Assembly



The stripper assembly removes the ozone gas from the water to be tested by the DOM-1 control unit.

DOM-1 Control Panel

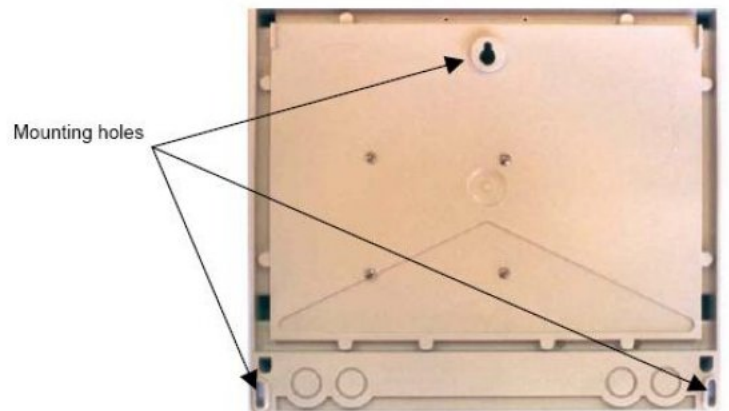
Figure 2 - Electronics Unit



The DOM-1 features many different controls to ensure accurate measurement of your dissolved ozone stream.

DOM-1 Mounting Holes

Rear View Showing Mounting Holes



The DOM-1 features three solid holes for secure mounting.

DOM-1 Electrical Connections

OUTPUT CONNECTIONS

The external connections to the outputs of the DOM-1 are made to the terminal block located inside the access cover on the lower part of the DOM-1 enclosure. The terminal block is wired as follows:

12 VDC	GND	4-20 mA	Relay
-- +		- +	N.O. C N.C.

12 VDC (800 mA) Terminals for power input as an alternate to the power jack on the bottom of the unit (see figure 2).

GND Independent connection to your earth ground. Is connected to the two - terminals.

4-20 mA Current output proportional to the dissolved ozone concentration. Scaled as 4 mA = 0 ppm and 20 mA = 2 ppm.

Relay The relay contacts are rated 5 amps 250 volts and its set-point is the control on the left side of the front panel. NO-C are the Normally open contacts when the concentration is below set-point; and NC-C are the normally closed contacts when the concentration is below set-point.

The DOM-1 has many different options for controlling external equipment. 4-20 mA signal allows complete monitoring of signal for PLC based operations.

Extra Pressure Regulator



A spare pressure regulator is also shipped with the DOM-1. This will eliminate down time in the event of an unexpected failure.

Replacement Sensor Assembly



A replacement sensor assembly is shipped with the DOM-1. The sensor does need regular calibration. This will allow the monitor to be operating while the calibration procedure is performed. This sensor can also be used in the event of a failure to eliminate down time.

Alternative Calibration Option



The DOM-1 can also be accurately calibrated on a monthly basis by using the SAM-3. This is just as easy and accurate as the K-7402. To purchase the SAM-3 [link url="http://www.ozonesolutions.com/SAM-3.html"]click here[/link].

Calibration Kit



The K-7402 can be used to calibrate the DOM-1 Dissolved Ozone Meter. We highly recommend using the K-7402 kit to calibrate your monitor. Calibrate your monitor monthly to ensure the readings on your DOM-1 are as accurate as possible at all times. [Click here](http://www.ozonesolutions.com/K-7402.html) to purchase the K-7402.