

# 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]

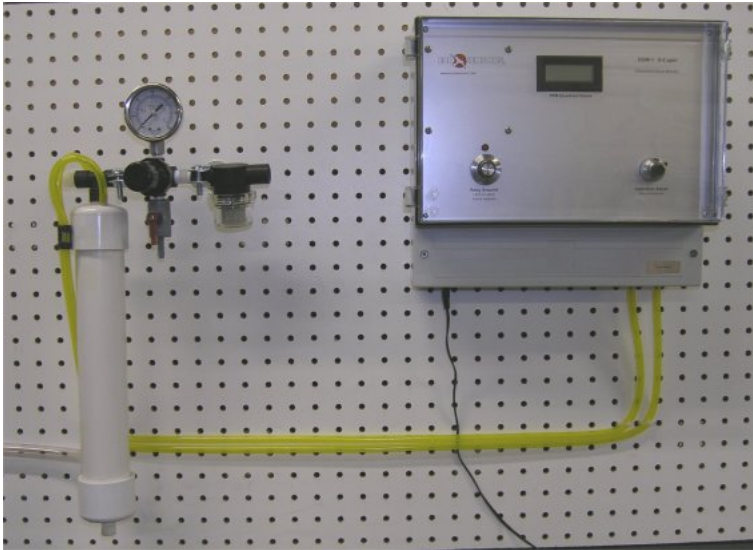
### Requirements

	Water feed at > 14 psi (1 bar)
	0.15 liters/minute (3 gallons/hour) flow to drain or reclaim

Note: DOM-1 can measure ozone accurately up to 150 PPM when used with a specially calibrated UV-100 Ozone Analyzer! - Call for details

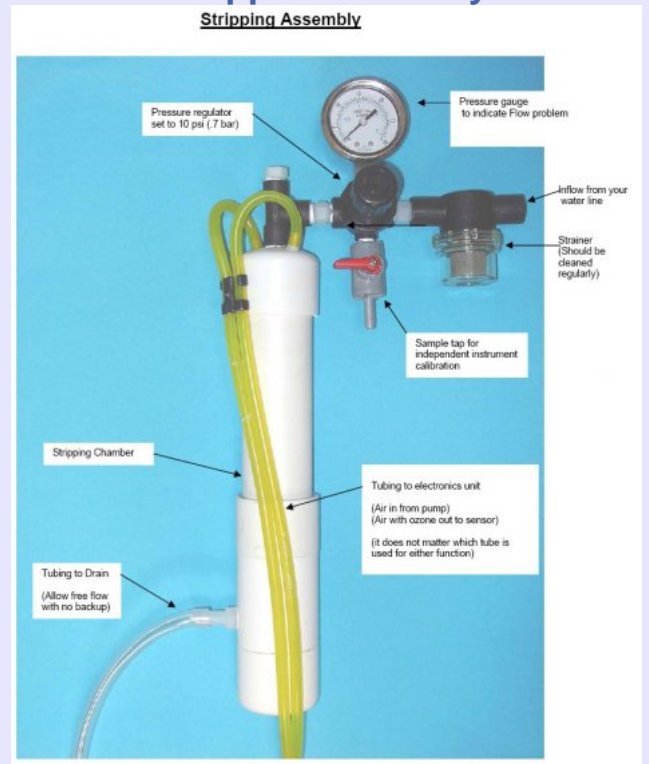
Warranty	1 year
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## DOM-1 Setup



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.

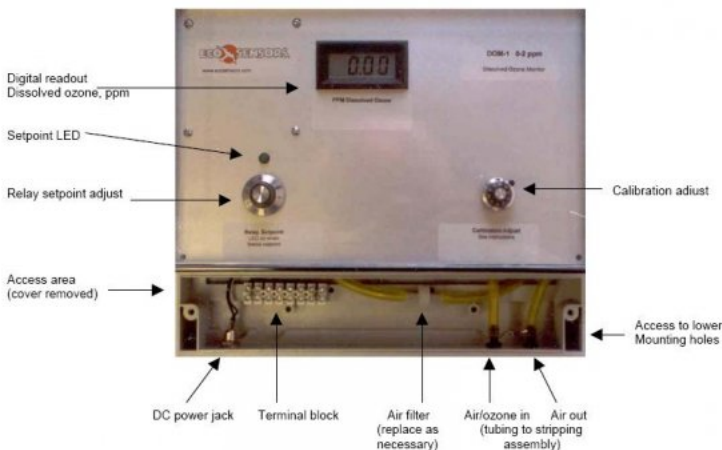
## Stripper Assembly



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

## DOM-1 Control Panel

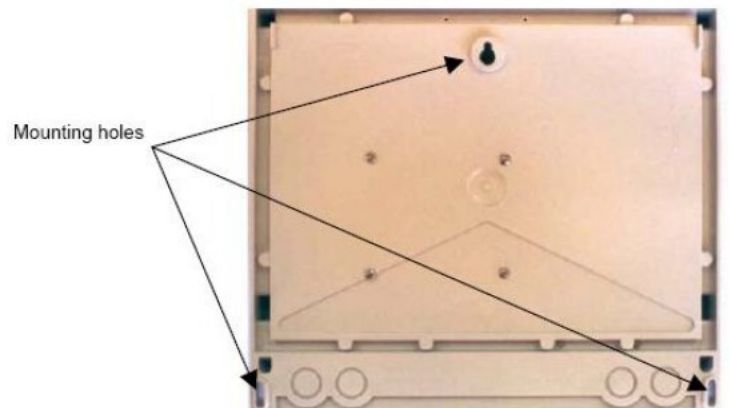
Figure 2 - Electronics Unit



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.

## 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.

## 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.