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**Model  
dFFOZ-TR**

## Dissolved Ozone Trace Analyzer



**The Model dFFOZ-TR** Trace Dissolved Ozone Analyzer is an Ozone specific measuring instrument that uses patented light absorption technology to achieve accurate, stable readings at concentrations in the single ppb levels in Ultrapure Water. Designed for maximum reliability and minimum maintenance, the analyzer requires no consumable electrolyte or membranes, and has no moving parts to wear out. The only maintenance required is the replacement of the UV lamp once every few years. Key technical advantages include extreme sensitivity, drift-free stability, and immunity to cross-interference from gases other than Ozone. The MiniSCI-N controller is microprocessor based and includes analog and digital interface as well as three user-programmable alarm relays.

### Applications:

- Measure traces of Ozone dissolved in water
- Ultrapure Water Systems
- USP Water Systems
- Post Ozone Injection
- Post UV radiation
- Other applications

### Industries:

- Semiconductor
- Pharmaceutical
- Biotechnology
- Research Laboratories
- Others

### Features:

- Sensitive to traces of Ozone in water in the ppb levels
- Patented light-absorption measuring technology
- No consumables electrolytes or membranes
- No moving parts, no routine maintenance
- Highly stable measurement
- Immune to cross interferences
- Analog and digital interface
- Convenient unattended operation

# Specifications **Model dFFOZ-TR™**

**SENSOR:** Model dFFOZ-TR

**Application:** Traces of ozone dissolved in water

**Measuring Principle:** UV Absorption, dual optical-path sample sensing technique (patented)

**UV Light Source:** Low pressure mercury vapor lamp

**Units of Measure:** ppm<sub>w</sub>, mg/L

**Range:** 0 to 1000 ppb<sub>w</sub>  
(higher range units available)

**Repeatability:** 3 ppb<sub>w</sub> or 2% of reading  
(higher performance units available)

**Flow Rate:** 0.75 to 1.5 SLPM

**Line Pressure:** 15 to 20 PSI

**Sample Ports:** 1/4" Swagelok™ (other fittings available)

**Enclosure:** NEMA 4X/ IP65

**Dimensions:** 6.3" W x 15.9" H x 3.9" D (160 x 405 x 99 mm)

**Maintenance:** UV lamp replacement every 24-36 months.  
(no other scheduled maintenance)

**CONTROLLER:** Model Mini Sci-N

**Display:** 16 character, alphanumeric, backlit LCD

**Resolution:** 1 ppb<sub>w</sub>

**Cycle Time:** Continuous measurement every 0.5 seconds

**Analog Outputs:** Opto-isolated 4-20 mA and 0-10V dc

**Digital I/O:** RS-232C, bi-directional

**Diagnostics:** Internal diagnostics, instrument error relay

**Alarm Relays:** 3 user programmable DPDT alarm relays

**Power:** 90 to 240 VAC, 50 / 60 Hz

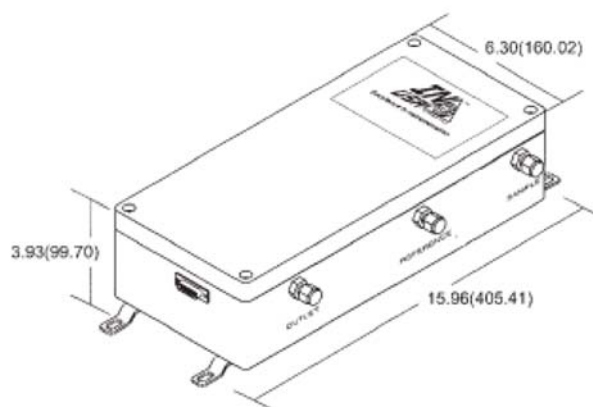
**Mounting:** Wall Mount Nema 4 Enclosure

**Dimensions:** 10" W x 8.5" H x 5.6" D  
(254 x 216 x 143 mm)

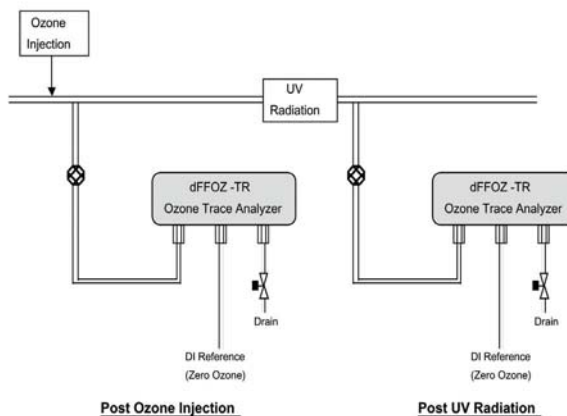
**Compliance:** CE

Specifications subject to change without notice

## Dimensional Outline



## Typical Installation



### Ozone instrumentation for every application

	Generator Output or Off Gas	Safety/Leak Detection	Tool Leak Detection	Stack & Environmental	Dissolved Ozone	Spot Checking
Model H1	•					
Model gFFOZ	•					
Model Mini-HiCon	•					
Model dFFOZ					•	
Model L2RM			•	•		
Model IN-2000		•	•	•		
Model AET-030		•		•		•
Model OG Series						

Ozone Generators for a wide range of applications



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