



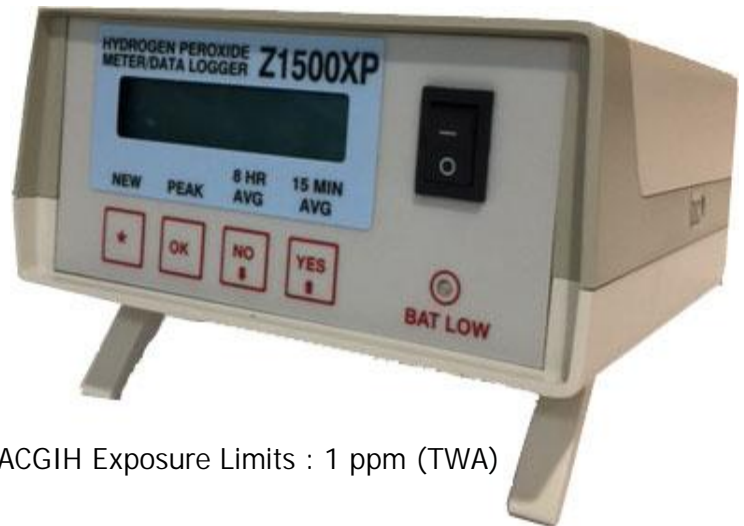
Environmental Sensors Co.

Hydrogen Peroxide

Model Z-1500XP
w/Pump & Data Logging

FEATURES

- ✓ Real Time Continuous Monitoring
- ✓ Active Sampling
- ✓ TWA, STEL and Peak
- ✓ Adjustable Alarm
- ✓ Rechargeable Battery



INTRODUCTION

OSHA/NIOSH/ACGIH Exposure Limits : 1 ppm (TWA)

Environmental Sensors' Hydrogen Peroxide Meter is a portable instrument that measures Hydrogen Peroxide concentration in a range of 0-20 ppm and a resolution of 0.1 ppm.

The instrument makes it possible to monitor Hydrogen Peroxide vapor in air. The instrument has a LCD display giving concentrations in ppm, a low battery indicator, and an audible alarm that can be set at any level from 0-20 ppm.

With the touch of a button, the meter displays STEL, TWA and Peak.

Data Logging

Data is stored in log files that are labeled with the date and time of the beginning of each run. All of the log files can be easily uploaded to PC using components available within the Microsoft Windows Operating System using software included with the instrument.



SPECIFICATIONS

Sensor Type	Electrochemical
Measuring Range	0-20 ppm
Maximum Overload	20 ppm
Resolution	0.1 ppm
Sensor Life	2 years
Response Time	< 150 sec.
Operating Temp.	-20 C° to +50 C°
Relative Humidity Range	15-90% non-condensing
Alarm	Audible, 80 db
Dimensions: HxDxW	7.5"x5.75"x2.75 "
Weight	900 gms
Power Source	Internal Rechargeable Battery or AC Adapter
Warranty	1 year

THEORY OF OPERATION

The sensing element of the instrument is an electrochemical cell. The cell is a four-electrode type, which contains a working and an active auxiliary electrode. The signal from the auxiliary electrode is used for temperature compensation and to improve the selectivity of the entire sensor. The sensor response is linear with the concentration of hydrogen peroxide in air.

INTERFERENCES

Some representative examples of the common compounds and the corresponding signals they are shown below. Care needs to be exercised when using this instrument in the presence of large concentrations of interfering gases. Contact the manufacturer if difficulties are suspected with other gases.

Gas	Concentration	Z-1500XP (ppm)
Carbon Monoxide	300 ppm	0
Hydrogen Sulfide	15 ppm	-2
Sulfur Dioxide	5 ppm	0
Nitric Oxide	35 ppm	0
Nitrogen Dioxide	5 ppm	3.5
Chlorine	1 ppm	<1
Hydrogen	100 ppm	0
Hydrogen Cyanide	10 ppm	0
Hydrogen Chloride	5 ppm	0
Ethylene	100 ppm	0

