



Environmental Sensors Co.

Carbon Monoxide Meter

Model Z-500XP

FEATURES

- Portable
- Internal Pump
- Rechargeable Battery
- Remote Sampling
- Simple to Use
- TWA, STEL and Peak
- Audible Adjustable Alarm
- Data Logging



Z-500XP Carbon Monoxide Meter

INTRODUCTION

Environmental Sensors Co.'s Carbon Monoxide Meter is a portable desktop instrument that measures carbon monoxide concentration in a range of 0-300 ppm and a resolution of 0.1 ppm

The instrument makes it possible to monitor carbon monoxide vapor in air. The instrument has a LCD display giving concentrations in ppm every 10 seconds, a low battery indicator, and an audible alarm that can be set at any level from 0-300 ppm.

With the touch of a button, the meter displays STEL (average of every 15 min.), TWA (average of every hour) and Peak.

The internal pump makes it possible to sample from hard-to-reach areas or confined spaces by attaching a flexible tube to the meter.

Data Logging

The meter stores all of the exposure points for up to 14,400 at 10 sec. interval in 5 logs (a log is created in the instrument's internal memory each time it is used). A log contains: date, time, number of exposure points. All of the log files can be easily uploaded to PC using components available within the Microsoft Windows Operating System or the terminal software included with the instrument.



The Right Source For Your Test & Measurement Needs

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Carbon Monoxide Meter

Model Z-500XP

SPECIFICATIONS

Sensor Type	Electrochemical
Measuring Range	0-300 ppm
Maximum Overload	2000 ppm
Resolution	0.1 ppm or 1 ppm
Sensor Life	2 years
Response Time	< 30 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 Adaptor
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 ammonia 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, or with other usage problems. In addition variations in the baseline, as a result of variations in concentrations of compounds other than the target gas, during the course of the measurement, can impact the reading.

Cross-Sensitivity Data

The actual concentration of interfering gases and the corresponding signals they give are shown below.

Gas	Concentration	Meter Output
Hydrogen Sulfide	15 ppm	<0.3 ppm
Sulfur Dioxide	5 ppm	0 ppm
Nitric Oxide	35 ppm	<7 ppm
Nitrogen Dioxide	5 ppm	-1 ppm<x<0 ppm
Chlorine	1 ppm	0 ppm
Hydrogen	100 ppm	<60 ppm
Hydrogen Cyanide	10 ppm	<2 ppm
Hydrogen Chloride	5 ppm	0 ppm
Ethylene	100 ppm	90 ppm
Ethanol	200 ppm	0 ppm



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