

Nitric Oxide Meter

Model Z-700XP

FEATURES

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



INTRODUCTION

Z-700XP Nitric Oxide Meter

Environmental Sensors Co.'s Nitric Oxide Meter is a portable desktop instrument that measures nitric oxide concentration in a range of 0-100 ppm and a resolution of 0.1 ppm

The instrument makes it possible to monitor nitric oxide 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 0-100 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.



8715 Mesa Point Terrace San Diego, CA 92154 Toll Free: 1.866.363.6634 Tel: 1.619.429.4545 Fax: 1.619.374.7012 Email: sales@calright.com http://www.calright.com

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SPECIFICATIONS

Sensor Type	Electrochemical
Measuring Range	0-100 ppm
Maximum Overload	1500 ppm
Resolution	0.1 ppm
Sensor Life	>2 years
Response Time	< 15 sec.
Operating Temp.	-20 C ^o to +50 C ^o
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

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THEORY OF OPERATION

The sensing element of the instrument is an electrochemical cell. The cell is a fourelectrode 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 nitrous oxide 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

Carbon Monoxide Hydrogen Sulfide Sulfur Dioxide Nitrogen Dioxide Nitrous Oxide Chlorine Hydrogen Hydrogen Cyanide Hydrogen Chloride Ethylene

Concentration

300 ppm 15 ppm 5 ppm 5 ppm 100 ppm 100 ppm 10 ppm 5 ppm 100 ppm

Meter Output

0 ppm 5 ppm 0 ppm <1.5 ppm 0 ppm 0 ppm 0 ppm <1 ppm 0 ppm



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