

Basic Features

- ◆ High Reliability
- ◆ Time Weighted Average (TWA)
- ◆ Short Term Exposure Limit (STEL)
- ◆ Compact & Lightweight
- ◆ Battery Status LED

Applications

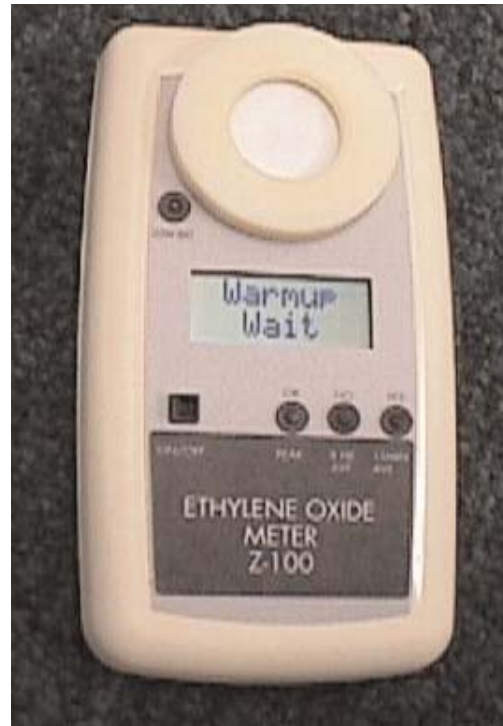
- ◆ Servicing of ETO sterilizers
- ◆ Monitoring for personnel safety any time ETO is suspected of being present

Specifications

Sensor Type	Electrochemical
Nominal Range	0-20 ppm
Max Range	100 ppm
Resolution	0.1 ppm
Response Time 90% Peak	<140 sec.
Repeatability	1% of signal
Linearity	Linear
Baseline Range (Clean Air)	0-1 ppm
Max. Zero Drift	2 ppm
Long Term Output Drift	<5% per year
Operating Temperature	0-40°C
Pressure Range	Atm±10%
Relative Humidity Range (non-condensing)	15-90% non-condensing
Alarm	Audible, 80db
Dimensions	HxDxW 4.75"x2.5"x1.5"
Weight	170 gms
Power Source	9-V Alkaline Battery

ETHYLENE OXIDE METER

Environmental Sensors Z-100



Environmental Sensor Co.'s Ethylene Oxide Meter is a hand held instrument that measures ethylene oxide vapor concentration with a range of 0 to 20 ppm and a resolution of 0.1 ppm. The instrument has an LCD display which shows the real time concentration in ppm (updated every ten seconds), a low battery indicator, and an audible alarm that can be set at any level 0.01 to 20.0 ppm. The meter can also display the Short Term Exposure Limit (a 15 minute average updated every 15 minutes), and the Time Weighted Average (an 8 hour average updated hourly).

Theory of Operation

The sensing element of the instrument is an electrochemical cell. The cell contains three electrodes, the working, counter, and reference electrodes. The signal from the working electrode is linear with the concentration of ethylene oxide in air.

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