



Environmental Sensors Co.

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Formaldehyde Meter

Model: Y-300

Features

- Meets OSHA Accuracy Requirements*
- Filter Technology Eliminates Interference
- Time Weighted Average (TWA)
- Short Term Exposure Limit (STEL)
- Compact, Light Weight, and Durable
- Audible Alarm
- Data Logging Available



Description

Environmental Sensors' handheld Formaldehyde Meter measures formaldehyde concentration in air in a range of 0-30 ppm at a resolution of 0.01 ppm. It is suitable to measure the employee exposure level in workplaces where formaldehyde is used routinely or the indoor air quality in homes or offices.

The operation is very simple. Just turn on the meter and follow the prompt on the LCD screen. After a short warm up routine, the meter will start showing the real-time concentration in ppm at 10 second intervals. When the concentration reaches above the alarm set level, the meter will beep continuously to alarm the user. With a touch of a button, the meter displays TWA (8 hour average), STEL (15 min. average) or peak concentration. The concentration can be shown in ppm or mg/m³.

Filters eliminate Interference



The instrument uses two filters to eliminate the signal caused by interfering substances. Measurement is first made with a filter to determine the background level. A second filter will allow the meter to subtract the background and give the formaldehyde vapor concentration without interference.



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*Third Party Certification

The meter has been shown to meet OSHA accuracy requirements by an ISO 9001 certified third-party testing lab. The instrument was tested using formaldehyde vapor standardized using NIOSH Method 2016. The accuracy and precision of the meter was determined by making repetitive measurements of the known concentration. The bias of the measurements was found to be <11% and CV <6%, making the accuracy well within the range allowed by OSHA.

Data Logger

The internal data logger has a capacity to store 14,400 data points. There are five logs in the data logger. The factory setting for one log is to measure 480 minutes (8 hours) at 10 second interval. The interval can be set to measure from every 10 seconds up to 60 seconds. The user can change the interval to prolong the total measure time. A log contains date, time, and the number of exposure points. All of the

log files can be easily uploaded to PCs for the analysis in a spreadsheet program such as Microsoft Excel. The USB data cable and the terminal software for downloading data will be included with the instrument when you purchase the data logging option.

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 the target gas in air.

Contact Local Partner:



Specifications

Sensor Type	Electrochemical
Measuring Range	0-30 ppm
Resolution	0.01 ppm
Sensor Life	2 years
Response Time	< 60 sec.
Operating Temp.	-20 C° to +40 C°
Relative Humidity Range	15-90% non-condensing
Alarm	Audible, 80 db
Dimension: H x D x W	4.75" x 2.5" x 1.5"
Weight	170 gms
Power Source	9-V Alkaline Battery
Warranty	1 year local warranty