

Thermo Environmental Instruments

MODEL 580B

Organic Vapor Meter Data Logger

UL Approved



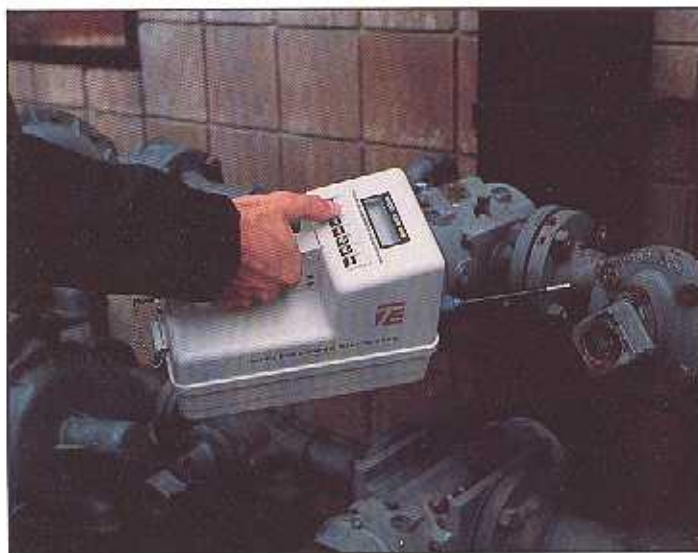
Class I, Division 2, Groups A, B, C, D
Hazardous Locations

New Dimensions Achieved For Applications In:

- Detection of Soil and Water Contaminants
- Leak Detection in Industrial Installations
- Locating Spills and Leaking Underground Storage Tanks
- Industrial Hygiene Monitoring
- Emergency Response

THE PROVEN CHOICE!

- Its predecessor, the Model 580A OVM, has solved applications for Industrial Hygienists, Waste Management Consultants, Safety Engineers, Emergency Response Teams, and Industrial Plant Personnel.
- Its microprocessor based design offers customers improved features like maximum signal hold, signal linearization, overrange indicator, and complete flexibility in test parameter programmability.
- Our applications group is always available to help customers achieve the best possible results from Thermo Environmental Instrument's Organic Vapor Meters. In the U.S., you can call upon our Applications Laboratory at (508) 520-0430.
- The portability of the Model 580B allows on-site detection of organic vapors, thereby eliminating the time, error, and cost associated with transporting samples back to the laboratory.



Highly sensitive photoionization detector provides on-site detection of organic vapors over the 0.1 to 2000 ppm range.

Auto Data Logging combined with a built-in RS-232 communications port allows up to 700 data points to be collected, stored, and subsequently transmitted to a printer or computer for further analysis.



DESIGNED WITH THE USER IN MIND

User Friendly Operation

Single handed grip with easy keypad accessibility

Simplified 7 segment keypad

LCD Output steps operator through program

*Maximum concentration signal hold facilitates isolation of chemical leaks

Portable and Rugged

Operated from internal batteries for 8 hours in the field

*Positive displacement pump enables sample collection and remote detection of organic vapors

Requires no support gases

Case designed for protection against hard impacts, harsh weather conditions, and chemical interactions

Advanced Calibration Utilities

*Microprocessor based design offers simplified calibration routines

Automatic recall of stored backup calibrations for in-field convenience

Ability to store 4 calibrations in memory

User settable calibration response factors

Flexible Data Logging/Retrieval

Built-in datalogger stores up to 700 data points by date, time, location, and status

Manual or autologging of data variable from 1 second to 100 minutes

Data retrieval via LCD readout, serial-port printer, or IBM-PC software option

Real-Time Data Output

Digital readout with bar graph for clear visible measurements

Concentration overrange condition signaled by real-time display or audible alarm

Average concentration displayed from 1 second to 4 minutes for time-weighted averaging

Superior Detector Performance

Highly sensitive photoionization detector provides reading stability and low noise

Linearized dynamic range from 0.1 to 2000 ppm

Four interchangeable lamps requiring no warm-up time offers detectability of a broad range of components

* Outstanding Features

Specifications

Measurement:

Technique:	Photoionization Detection of most organic vapors and some inorganic gases are possible — See OSHA Chart.
Ranges:	Digital Readout (LCD) — Auto Ranging 0-200 ppm (resolution to 0.1 ppm) 200-2000 ppm (resolution to 1.0 ppm)
Minimum Detectable:	0.1 ppm benzene in air matrix.
Sensitivity:	0.1 ppm benzene on 0-200 ppm scale.
System Time Constant:	2.0 sec. at 400 ml/min. sample flow
Sampling Rate:	Nominal Flow 400 ml/min.
Sample Conditioning:	Changeable ten micron filter on inlet.

Power Requirements:

Battery:	Internally rechargeable (external charger provided with unit).
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Service Life:	8 hours per internal battery charge, operates from charger indefinitely.
Charger Requirements:	115/220 VAC, 60/50 Hz, 4 watts maximum.

Controls, Panel:

Readout:	Two line alphanumeric display with bargraph.
Keypad:	Seven Touch Pads : PWR, MODE, RESET, LIGHT, +, -, SPKR.

Other Features:

Audible Alarm:	80 db audible alarm mounted on front panel.
Earphone:	For operation in noisy environment.

Physical

Case Size:	6.75" x 5.75" x 10.0" (HWD).
Weight:	6.0 lbs.

Communication:

RS-232 port.

Available Options

- Intrinsically Safe (Model 580S) OVM
- Carrying case
- IBM-PC and compatible Communications Software
- Calibration Kit
- Dilution Probe
- Bar Code Reader
- Headspace Analysis Cap
- Water Trap

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