

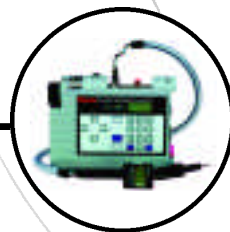
Thermo Environmental Instruments



- Fugitive Emissions Monitoring
- Emergency Response Analysis
- Underground Storage Tank Testing
- Hazardous Waste Site Evaluation
- Industrial Hygiene Monitoring
- Natural Gas Leak Detection

TVA-1000B[®]

Portable Toxic Vapor Analyzer



- Dual Simultaneous FID/ PID or Single FID detectors
- Portable and lightweight
- Multiple response factors and curves
- Multi-point calibration
- On-board datalogging



The TVA-1000B is the only over-the-shoulder portable vapor analyzer that offers both PID (Photo Ionization Detection) and FID (Flame Ionization Detection) in a single, easy-to-use instrument. You can easily carry the TVA-1000B to any plant or field location, thanks to its compact size. With the TVA-1000B, you can rapidly monitor and log inorganic and organic vapors simultaneously, on-line, with ease.

FID Detection

Users can measure a wide variety of organic vapors over an impressive dynamic range (0-50,000 ppm). FID allows the user to monitor some compounds that the PID will not detect. The flame ionization detector operates by breaking Hydrogen-Carbon bonds and is not limited by the ionization potential of the molecule.

Simultaneous FID/PID Detection

No other company offers both Photo Ionization and Flame Ionization Detection operating simultaneously in a single portable vapor analyzer. Dual detection eliminates the time, expense and trouble of purchasing and maintaining two separate analyzers.

With a dual detector, the user has not only the ability to monitor for organic compounds, but also can detect inorganic compounds with the use of the PID. Some compounds detected by PID and not FID are ammonia, carbon disulfide, carbon tetrachloride, formaldehyde, and hydrogen sulfide. The PID also has the advantage of not requiring fuel or air to operate. In anaerobic environments, the TVA-1000B PID readings can be used.



Fugitive Emissions Monitoring

The unique dual detector FID/PID design can handle a whole span of compound vapors present at plants. The *TVA-1000B* will monitor more compounds at lower parts per million.

Emergency Response Analysis

For reliable analysis of hazardous spills or emissions, the *TVA-1000B* responds quickly in an emergency.

Hazardous Waste Site Evaluation

Use the *TVA-1000B* for readings of vapors at your site for safe, fast, easy, and accurate characterization of hazardous waste sites.

Underground Storage Tanks

The *TVA-1000B* is a primary tool for determining if a UST is leaking and the extent of the contamination.

Industrial Hygiene

The *TVA-1000B* can help you maximize the effectiveness of your plant or mill ventilation system, and eliminate trouble spots. Use it to measure ambient vapor levels in specific breathing zones or in general plant environments, and permanently log them for compliance methods.

Natural Gas Leak Detection

The *TVA-1000B* enables quick and easy detection of natural gas leaks.



Two Probe Options

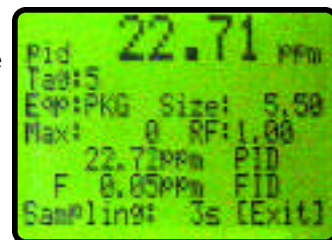
Standard Probe

Displays measurement values on a 4-character LCD, with measurement units displayed in %, ppm, or ppb. Additionally, a bargraph indicator provides an indication of concentration level. Function keys allow selection of analyzer functions.



Enhanced Probe

Originally designed for Fugitive Emissions monitoring, the enhanced probe has a larger display area than the basic probe and can provide a display of up to 8 lines x 20 characters. It displays all the same information as the standard probe and has menu-driven access to many of the analyzer functions, allowing them to be easily initiated and/or changed at the probe.





TVA-1000B Summary Specifications

	Photo Ionization	Flame Ionization
Safety certifications	FM (Class I, Div. 1, Groups A, B, C & D Hazardous Location, Temp. Class T4) CENELEC (Div. 1, Zones I and II Group IIC, Hazardous Location, Temp. Class T4)*	
Datalogging	Onboard	
Readout	Bar graph & 4-digit LCD	
Dynamic Range	0-2,000 ppm	0-50,000 ppm
Response Time	2 seconds	
Minimum Detectable Limit	100 ppb benzene	200 ppb benzene
Alarms	Low, high, STEL	
Sample flow rate	1,000 cc/min	
Power	Rechargeable NiCd Battery	
Fuel	None required	99.5% hydrogen
Portable operation time	8 hours	
Approximate Mass	5.5 kg (12 pounds)	
Nominal Dimensions	343 x 262 x 81 mm (13.5 x 10.3 x 3.2 inches)	
Analog output	0-2V dc	
Repeatability	+/- 1%	
Automatic autoranging	Yes	
Diagnostics	Yes	
Options Available:		
Carrying Case	P/N CR012XL	
Charcoal Filter	P/N 510095-1	
Calibration Kit	P/N CR009UY	



ISO-9001 Certified

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