Thermo Scientific TVA-1000B Toxic Vapor Analyzer

The only portable, intrinsically safe, dual Flame Ionization Detector and Photo Ionization Detector analyzer

The Thermo Scientific™ TVA-1000B Toxic Vapor Analyzer is the only over- the-shoulder portable vapor analyzer that offers both Flame Ionization Detection (FID) and Photo Ionization Detection (PID) in a single, easy-to-use instrument.

- Optional bluetooth communication module
- Simultaneous FID/PID or Single FID detector(s)
- U.S. Environmental Protection Agency Method 21 compliant
- Detects organic and inorganic compounds
- Multiple sampling probe options

The Thermo Scientific TVA-1000B Toxic Vapor Analyzer is capable of measuring a variety of organic vapors using FID technology, over a wide range of organic vapors can be measured, by the FID, over a wide dynamic range (0-50,000 ppm), monitoring some compounds that PID will not detect. The FID operates by breaking hydrocarbon bonds and is not limited by a high ionization potential of the molecule. In addition, the FID is unaffected by ambient CO, CO_2, or humidity leading to very stable measurements.

With PID detection, the user can monitor for organic compounds and detect many inorganic compounds simultaneously. Some compounds detected by PID are ammonia, carbon disulfide, carbon tetrachloride, formaldehyde and hydrogen sulfide.

The PID also has the advantage of not requiring fuel or oxygen operate.

Dual detection offers a single user interface, reduced weight of the unit, and elimination of the expense of purchasing and maintaining two separate analyzers.

For probeless operation, the optional bluetooth communication module streams real-time data from the TVA-1000B to your handheld device. You can easily enable the power of your handheld PC and save valuable time by scrolling through data on-site.

The TVA-1000B analyzer is available with optional equipment including: bluetooth communication for probeless operation, a standard probe, an enhanced probe, and the ThermoConnect software that enables users of the TVA-1000B instrument to transfer, display, analyze and configure data using a computer.

Thermo SCIENTIFIC

Thermo Scientific TVA-1000B Toxic Vapor Analyzer

Safety Certifications	FM (Class 1, Div. 1, Groups A,B,C & D Hazardous Location, Temp. Class T4)
Datalogging	Onboard
Probe Display	Bar graph & 4-digit LCD (standard); 6 lines x 20 characters (enhanced)
Dynamic Range	0.5-2,000 ppm (PID) isobutylene; 0.5-50,000 ppm (FID) methane
Linear Range	0.5-500 ppm (PID) isobutylene; 0.5-10,000 ppm (FID) methane
Response Time	3.5 seconds
Minimum Detectable Limit	100 ppb benzene (PID); 300 ppb hexane (FID) (laboratory conditions)
Alarms	Low, high, STEL
Sample Flow Rate	1000 cc (normal)
Power	Rechargeable NiCd battery
Logging Capacity	850-27,000 points mode specific
Fuel	None required (PID); 99.99% hydrogen (FID)
Portable Operation Time	8 hours (with reference operating conditions)
Approximate Mass	5.8 kg (13 pounds)
Nominal Dimensions	13.5 x 10.3 x 3.2 inches (343 x 262 x 81 mm)
Analog Output	0-2 Vdc (non-calibrated)
Repeatability	+/- 1% (PID); +/- 2% (FID)
Accuracy	FID= 25% of reading or 2.5ppm, whichever is greater from 1.0 to 10000ppm; PID= 25% of reading or 2.5ppm. whichever is greater from 0.5 to 500ppm
Auto Ranging	Yes
Diagnostics	Yes
Available Options	Carrying case, charcoal filter, FID calibration kit, PID/FID calibration kit, and bluetooth communication module

Probe Options

Standard Probe

Display measurement values on a 4-character LCD screen, with measurement units displayed as %, ppm, or ppb. Additionally a bar graph indicator provides an indication of concentration level. Function keys allow selection of analyzer functions

Enhanced Probe

Originally designed for Fugitive Emission monitoring, the enhanced probe has a larger screen area than the standard probe. This provides a display of up to 6 lines x 20 characters, plus a double height concentration value. It presents 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.

Probeless

Operate the TVA-1000B analyzer without the probe by utilizing the optional bluetooth communication module. This module is FCC compliant, intrinsically safe and complies with most major LDAR compliant software packages. Featuring a range of 10' and only a 3% battery power consumption, you can utilize the TVA-1000B analyzer remotely, re-ignite the FID chamber and easily access your hand-held terminal.

For more information, visit our website at thermoscientific.com/oeh

This product is manufactured in a plant whose quality management system is ISO 9001 certified.

USA
27 Forge Parkway
Franklin, MA 02038
Ph: (866) 282-0430
Fax: (508) 520-1460
customerservice.aqi@thermofisher.com

India
C/327, TTC Industrial Area
MIDC Pawane
New Mumbai 400 705, India
Ph: +91 22 4157 8800
india@thermofisher.com

China
+Units 702-715, 7th Floor
Tower West, Yonghe
Beijing, China 100007
+86 10 84193588
info.eid.china@thermofisher.com

Europe
Takkebijsters 1
Breda Netherlands 4801EB
+31 765795641
info.aq.breda@thermofisher.com

Lit_TVA1000BEPM_09/12