

# Flame Ionization Detector (FID)

## TVA-1000B FID/PID Portable Toxic Vapor Analyzer

The TVA-1000B is the only over the shoulder portable vapor analyzer that offers both PID (Photo Ionization Detection) and FID (Flame Ionization Detection). Users can measure a wide variety of organic vapors over an impressive dynamic range (0-50,000 ppm). The FID operates by breaking Hydrogen-Carbon bonds and is not limited by the ionization potential of the molecule.

### FEATURES

- Dual simultaneous FID/PID or single FID detectors
- Portable and lightweight
- Multiple response factors and curves
- Multi-point calibration
- Eight programmable location labels
- On-board datalogging



TVA-1000B FID/PID

### APPLICATIONS

- Fugitive emmissions monitoring
- Emergency response analysis
- Underground storage tank testing
- Hazardous waste site evaluation
- Industrial hygiene monitoring
- Natural gas leak detection

### SPECIFICATIONS

Datalogging	On board	Diagnostic	Yes
Readout	Bar graph & 4-digit LCD	Approximate Mass	5.5 Kg. (12lbs)
Response Time	2 seconds	Nominal Dimensions	(13.5 x 10.3 x 3.2)
Alarms	Low , High STEL	Analog Output	0-2V dc
Sample Flow Rate	1,000 cc/min.	Repeatability	+ - 1%
Power	Rechargeable NiCd Battery	Automatic Auto Ranging	Yes
Portable Operation Time	8 hours	Options	Carrying case, charcoal filter and calibration kit
Safety Certifications	FM (Class I, Div. I, Groups A,B,C,& D Hazardous Loc. Temp. Class T4) CENELEC (Div. 1 Zones II & II Group IIC, Hazardous Loc. Temp. Class T4)		

### PHOTOIONIZATION

Dynamic Range	0-2,000 ppm
Fuel	None required
Minimum Detectable Limit	100 ppb benzene

### FLAME IONIZATION

Dynamic Range	0-50,000 ppm
Fuel	99.5% hydrogen
Minimum Detectable Limit	200 ppb benzene