

Portable FID/PID

Thermo Scientific TVA2020 Toxic Vapor Analyzer

The Thermo Scientific™ TVA2020 Toxic Vapor Analyzer is the only intrinsically safe, portable field analyzer using both Flame Ionization Detection (FID) and Photo Ionization Detection (PID) technologies.

FEATURES

- Dual FID/PID technology
- Bluetooth enabled
- Lightweight and compact design
- Easy to service in the field
- No PC based software required

OPTIONS

- **Voltage:**
120 VAC 50/60 Hz (standard)
220/240 VAC 50/60 Hz
220 VAC 50/60 Hz (China)
- **Detectors:**
Flame Ionization Detection (FID)
Dual configured with FID and Photo Ionization Detection (PID)
- **Probes:**
No Probe
Sampling Probe
Enhanced Probe
Both Sampling and Enhanced probes
- **Outputs:**
None
Bluetooth
GPS
Both Bluetooth and GPS



SPECIFICATIONS

Accuracy	FID Instrument – $\pm 10\%$ of reading or ± 1.0 ppm, whichever is greater, from 1.0 to 10,000 ppm. PID Instrument – $\pm 20\%$ of reading or ± 0.5 ppm, whichever is greater, from 0.5 to 500 ppm.	Hydrogen Supply Operating Time	10 hours of continuous operation, starting from a cylinder charged up to 15.3 MPa (2200 psi)
Repeatability	FID Instrument – 2% at 500 ppm of methane PID Instrument – 1% at 100 ppm of isobutylene	Physical Dimensions	29.2 cm x 22.9 cm x 10.2 cm (11.5" x 9" x 4")
Linear Range	FID Instrument – 1.0 to 30,000 ppm of methane PID Instrument – 0.5 to 2,000 ppm of isobutylene	Weight	FID only – 9.2 pounds Dual – 9.4 pounds
Response Time	PID Instrument – Less than 3.5 seconds for 90% of final value, using 500 ppm of isobutylene FID Instrument – Less than 3.5 seconds for 90% of final value, using 10,000 ppm of methane	Temperature Range	-10°C - +45°C
Sample Flow Rate	1 liter/minute, nominal, at sample probe inlet	Minimum Detectable Limit	The minimum detectable level is defined as seven times the standard deviation of peak-to-peak noise. PID Instrument – 0.5 ppm of isobutylene FID Instrument – 0.5 ppm of methane
Battery	The battery operating time is 10 hours minimum at 0°C (32°F). Fully charged in less than 10 hours.	Lamp Life	PID Instrument – Greater than 2,000 hours, with normal cleaning FID Instrument – Greater than 5,000 hours
		Data Storage Interval	Auto mode – 1 per second to 1 per 999 minutes, user selectable VOC or FE Mode – 2 to 30 seconds, user selectable
		Relative Humidity Range	15 - 95%

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