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 – ±10% of reading or ±1.0 ppm, whichever is greater, from 1.0 to 10,000 ppm.
  - PID Instrument – ±20% of reading or ±0.5 ppm, whichever is greater, from 0.5 to 500 ppm.

- **Repeatability**
  - FID Instrument – 2% at 500 ppm of methane
  - PID Instrument – 1% at 100 ppm of isobutylene

- **Linear Range**
  - FID Instrument – 1.0 to 30,000 ppm of methane
  - PID Instrument – 0.5 to 2,000 ppm of isobutylene

- **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

- **Sample Flow Rate**
  - 1 liter/minute, nominal, at sample probe inlet

- **Battery**
  - The battery operating time is 10 hours minimum at 0°C (32°F).
  - Fully charged in less than 10 hours.

- **Hydrogen Supply Operating Time**
  - 10 hours of continuous operation, starting from a cylinder charged up to 15.3 MPa (2200 psi)

- **Physical Dimensions**
  - 29.2 cm x 22.9 cm x 10.2 cm (11.5” x 9” x 4”)

- **Weight**
  - FID only – 9.2 pounds
  - Dual – 9.4 pounds

- **Temperature Range**
  - -10°C - +45°C

- **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

- **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%

**CALL GEOTECH TODAY (800) 833-7958**

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