

Ion Science TVOC 2 Fixed VOC Monitor

TVOC 2 is a fixed photoionization detector (PID) for the use of continuous measurement of total volatile organic compounds (VOCs). TVOC 2 utilizes a diffusive sample technique resulting in less contamination issues compared to pumped systems, reducing lamp cleaning and servicing requirements. The 4-20 mA analog output enables TVOC to be integrated into a DCS control system to give warning or control of high VOC levels in the working environment.

FEATURES

- ID independently verified as best performing on the market
- Range: 0 to 10, 0 to 100 or 0 to 1000 ppm from just one instrument
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation
- Reliable diffusive monitoring – no pump required
- Accurate results over all environmental conditions
- Rugged and robust design withstands harsh environments
- Large LCD display for clear readings
- ATEX and IECEx approved*

*ATEX approvals enable TVOC 2 systems to be used in Zone 2 hazardous areas, without safety barriers.

ATEX and IECEx approvals allow TVOC 2 to be used in Zone 1 hazardous areas, with safety barriers.

APPLICATIONS INCLUDE:

- Manufacturing
- Processing
- Offshore
- Refineries & petrochemical
- Chemical
- Waste water treatment
- Pulp & paper
- Pharmaceutical
- Indoor air quality
- Solvent recovery systems
- Industrial painting & coating



TVOC 2 flow adaptor cap used to integrate the TVOC into a pumped system.

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • FAX (303) 322-7242

email: sales@geotechenv.com • website: www.geotechenv.com

SPECIFICATIONS

| | |
|----------------------------------|---|
| Approvals | <ul style="list-style-type: none"> • II 2G Ex ia IIC T4 Gb (-20°C ≤ Ta ≤ +50°C) • II 3G Ex nA IIC T4 (-40°C ≤ Ta ≤ +50°C) • Baseefa05ATEX0277X • IECEx BAS 06.0057X |
| Ingress Protection Rating | <ul style="list-style-type: none"> • Designed to IP65 • Sensor Ingress Protecting IP54 |
| Power | <ul style="list-style-type: none"> • 5-28 VDC Max 130 mA |
| Output | <ul style="list-style-type: none"> • 4-20 mA requires a 8-35 VDC power supply • For IS requirements 8-30 VDC power supply |
| Range | <ul style="list-style-type: none"> • 0 to 10 ppm, 0 to 100 ppm, 0 to 1000 ppm (user selectable) |
| Sampling | <ul style="list-style-type: none"> • Diffusion (can be pumped if required using an adaptor) |
| Display | <ul style="list-style-type: none"> • 7 segment, 4 digit LCD, 4 color LEDs |
| Response | <ul style="list-style-type: none"> • Sensor - T90 < 5 sec |
| Accuracy | <ul style="list-style-type: none"> • 0 to 100 ppm: ±5% at calibration point. • 100 to 1000 ppm: ±10% at calibration points. |

| | |
|--------------------------------|--|
| Calibration | <ul style="list-style-type: none"> • Accessed via magnetic switch • 100 ppm Isobutylene via calibration kit accessory |
| Temperature | <ul style="list-style-type: none"> • Operating: -20°C to 50°C (-4°C to 122°F) • Humidity: 0-95% RH (non-condensing) |
| Weight & Dimensions | <ul style="list-style-type: none"> • Instrument: 1.4 kg (3.1 lb.) • Packed: 1.6 kg (3.5 lb.) • Dimensions: 188 x 126 x 78 mm (7.4" x 4.9" x 3") |
| 4-20 mA Alarm Levels | <ul style="list-style-type: none"> • Selectable 2 mA & 3.5 mA options |

Specifications can change without notice.

All specifications quoted are at calibration point and under the same ambient conditions.

Specifications are based on isobutylene calibration at 20°C and 1000 mBar.

* The Fence Electrode technology referred to in this document is produced by Ion Science Ltd, and protected by patents.

U.S. Patent No. 7,046,012. EP 1474681, other patents pending.

TVOC 2 is a registered trademark of Ion Science Ltd.



TVOC 2 tool-kit for general service and calibration.

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