

TVOC

FIXED VOC MONITOR



FIXED PID MONITOR FOR VOLATILE
ORGANIC COMPOUNDS.

ionscience.com

Unrivalled Gas Detection^{ion}.



CONTINUOUS DETECTION OF VOLATILE ORGANIC COMPOUNDS (VOCS) WITH MULTIPLE RANGE FROM JUST ONE INSTRUMENT.

Best available photoionisation (PID) detection

- PID 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
- Variable duty cycle prolongs run time
- Reliable diffusive monitoring - no pump required

Safety

- Accurate results over all environmental conditions
- Rugged and robust design withstands harsh environments
- Large LCD display for clear readings
- ATEX and IECEx approved

Ease of use

- Simple to use - minimal training required
- Easy access PID sensor for fast, simple servicing
- Simple calibration procedure
- Easily integrated into a control system

Low cost operation

- Inexpensive consumables and parts
- 2 year warranty when instrument registered online





TVOC is a fixed photoionisation detector (PID) for the continuous measurement of total volatile organic compounds (VOCs). TVOC accurately measures over three different detection ranges from just one instrument.

TVOC has a variable duty cycle set to 1 minute as standard. The user can adjust this between 5 seconds and 5 minutes.

TVOC utilises a diffusive sample technique resulting in less contamination issues compared to pumped systems, reducing lamp cleaning and servicing requirements. The 4-20 mA analogue output enables TVOC to be integrated into a DCS control system to give warning or control of high VOC levels in the working environment.

ATEX approvals enable a 3 wire TVOC system to be used in Zone 2 hazardous areas, without safety barriers. ATEX and IECEx approvals allow TVOC to be used in Zone 1 hazardous areas, with safety barriers.

Simple to install, service and calibrate, TVOC requires no hot work permit and the PID sensor is accessible and changeable in a matter of seconds.

Extend your instrument warranty

Your TVOC instrument warranty may be extended by simply registering your product on the Ion Science website within one month of purchase. Visit www.ionscience.com/instrument-registration to take advantage of this offer.

Applications include:

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

Accessories

TVOC is supplied with an exclusive range of accessories. Visit www.ionscience.com/tvoc for more info.



Technical specifications

Approvals

- II 2G Ex ia IIC T4 Gb
(-20°C ≤ Ta ≤ +50°C)
- II 3G Ex nA IIC T4
(-40°C < Ta < +50°C)
- Baseefa05ATEX0277 /3
- IECEx BAS 06.0057
- EMC

Ingress protection rating

- Designed to IP65
- Dependent on cable glands fitted sensor to IP53

Power

- 5-28 VDC Max 65 mA

Output

- 4-20 mA requires a 8-35 VDC power supply
- For IS requirements 8-30 VDC power supply

Range

- 0 to 10 ppm, 0 to 100 ppm, 0 to 1000 ppm (user selectable)

Sampling

- Diffusion (can be pumped if required using an adaptor)

Display

- 7 segment, 4 digit LCD, 4 color LEDs

Response

- Sensor - T90 < 5 sec**

Accuracy

- 0 to 100 ppm : ± 2% or ± 1 ppm (whichever is greater)
- 100 to 1000 ppm: ± 10%

Linearity

- 0 to 1000 ppm: >75%

Calibration

- Magnetically accessed 100 ppm Isobutylene via calibration kit
- accessory

Temperature

- Operating: -20 °C to 50 °C (-4 °C- 122 °F) Humidity: 0-95% RH
- (non- condensing)

Weight & dimensions

- 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

- Selectable 2 mA & 3.5 mA options

TVOC V2.2. This publication is not intended to form the basis of a contract and 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 has a variable duty cycle set to 1 minute as standard.

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Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



Kijk voor een overzicht van al onze diensten op euro-index.nl/diensten



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Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over laboratoria op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

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- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

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Cursussen en workshops



Mobiele Service

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