

TVOC

Intrinsically Safe, Fixed PID for Continuous VOC Monitoring

TVOC is the first Intrinsically Safe, fixed photoionisation detector (PID) of its kind for continuous detection and measurement of total volatile organic compounds (VOCs). With a 4-20 mA analogue output TVOC can be integrated into a DCS control system to give warning or control of high VOC levels in the working environment.

TVOC utilises a diffusive sample technique resulting in less contamination issues compared to pumped systems, reducing lamp cleaning and servicing requirements. 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.

APPLICATIONS

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



KEY FEATURES

- Patented Fence Electrode Technology for high sensitivity, humidity and contamination resistant operation
- Intrinsically Safe for use in hazardous areas – no need for explosion proof enclosure
- Selectable detection range of 0 – 10 ppm, 0 – 100 ppm or 0 – 1000 ppm
- Diffusive monitoring - no pump required
- Scaled 4-20 mA analogue output
- Operates at 5 to 28 V
- - 20 to 50 oC operating temperature
- LED and 4-20 mA output fault indication
- Includes a 10.6 eV lamp
- Digital numerical display
- Easy access PID sensor allows simple servicing
- Simple calibration procedure

TVOC

SPECIFICATIONS Specifications subject to change without notice

Sensor (PID)	10.6 eV lamp with Ion Science patented Fence Electrode technology*
Intrinsically Safe Approvals	II 2 G EEx ia IIC T4 (-20 oC ≤ Ta ≤ 50 oC) IECEx pending
Ingress Protection Rating	IP65 - dependent on cable glands fitted Sensor - IP54
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	0.1-100 ppm 1-1,000 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. Detector - 1 minute as standard**
Accuracy	0-100 ppm ≤ 2% 100 - 1,000 ≤ 5%
Linearity	0-100 ppm > 98%
Calibration	Magnetically accessed 100 ppm Isobutylene via calibration kit accessory
Temperature	Operating: -20 to 50 oC (-4 - 122 oF)
Humidity	0-95% RH (non- condensing)
Weight	1.3 kg (2.9 lb) Packed: 1.47 kg (3.2 lb)
Dimensions	120 x 160 x 70 mm (4.7 x 6.3 x 2.8")



t +61 8 6108 0000

e info@gastech.com

w gastech.com

HEAD OFFICE

24 Baretta Road
Wangara WA 6065
Phone: +61 8 6108 0000

SYDNEY OFFICE

21/25 Narabang Way
Belrose NSW 2085
Phone: +61 2 9451 0054

BRISBANE OFFICE

PO Box 349
Cannon Hill Qld 4170
Phone: +61 7 3160 0901