

Fixed VOC Detector

Ion Science FALCO Fixed VOC Detector

FALCO is the latest generation of fixed photoionization detectors (PID) that continuously detect a wide range of volatile organic compounds (VOCs). Unique to FALCO is its revolutionary Typhoon Technology safeguarding the sensor from condensing moisture for added reliability in severe weather conditions!

FEATURES

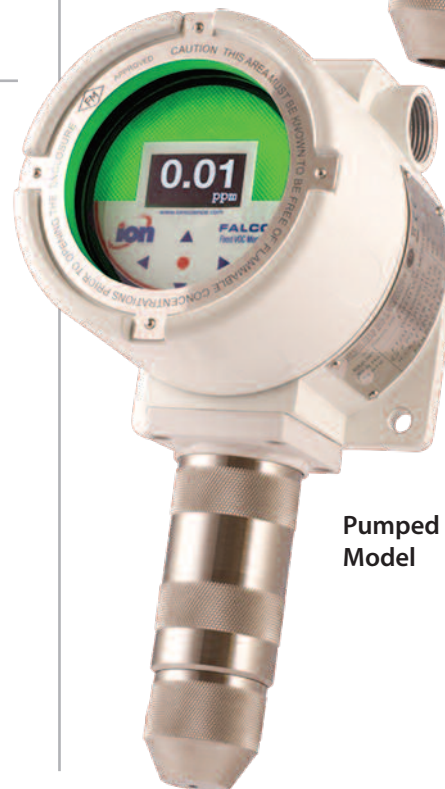
- Fixed VOC detector for maximum plant and worker safety
- Pumped or diffused models available
- Even works within condensing atmospheres and extreme weather
- The only VOC detector specifically designed for extreme weather
- Typhoon Technology stops condensation forming within the PID
- Cutting-edge sensor performance minimizes drift and downtime
- Eliminates false readings found with other fixed PIDs
- Multi-colored status display seen from 20 meters in sunlight
- Fitted with long-life lamp for two years continuous use
- Selectable response factor for varying VOC selection
- Ex d approved enclosure
- UL/CSA Approved

APPLICATIONS

- Manufacturing
- Processing
- Refineries & Petrochemical
- Chemical
- Waster Water Treatment
- Pulp & Paper
- Pharmaceutical
- IAQ
- Solvent Recovery Systems
- Industrial Painting & Coating
- Fenceline Monitoring
- Outdoor Air Quality
- Tankfarms
- Bunkering
- Construction
- Remediation



Diffused Model



Pumped Model

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

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FALCO CONFIGURATIONS

FALCO offers the ultimate in flexibility and can be purchased as one of four detection ranges in either a pumped or diffused variant.

Type	0-10 ppm	0-50.0 ppm	0-1000 ppm	0-3000 ppm
Sensitivity	0.001 ppm	0.01 ppm	0.1 ppm	1 ppm
PUMPED	✓	✓	✓	✓
DIFFUSED	✓	✓	✓	✓

ULTIMATE PID

Ultimate Performance

- The only VOC detector specifically designed for extreme weather
- Typhoon Technology stops condensation forming within the PID
- Cutting-edge sensor performance minimizes drift & downtime

Ultimate Safety

- Eliminates false readings found with other PIDs
- Multi-colored status display seen from 20 meters in sunlight
- Fitted with long-life lamp for one year of continuous use
- Ex d approved
- Intrinsically safe; meets ATEX, IECEx, U.S.A. and Canadian standards

Ultimate Flexibility

- Pumped or diffused models available
- Pumped unit ideal for difficult to access locations
- Diffused model reduces servicing costs
- Four detection ranges available
- Selectable response factor for varying VOC selection

...PID detection you can trust!

TECHNICAL SPECIFICATIONS

SENSOR	Photoionization with 10.6 eV lamp
DETECTION RANGES AND SENSITIVITY	
0-10.0 ppm*	0.001 ppm
0-50.0 ppm*	0.01 ppm
0-1000 ppm*	0.1 ppm
0-3000 ppm*	1 ppm
DETECTION TIME (T90) <30 seconds (diffused)**	
USER INTERFACE	
Display:	OLED high contrast white on black 128 W x 64 H pixels
Screen Size:	35mm W x 17.5mm H (1.4" W x .7" H) 5 magnetic switches with LED confirmation (up, down, left, right & enter). Magnetic actuator supplied.
STATUS INDICATOR	
Bright visible status indicator: RED, AMBER, GREEN	
CERTIFICATION	Ex II 2G Ex d ib IIC T4 Gb ISO9001:2008
ENVIRONMENTAL SPECIFICATION	
Without Pump:	-40°C to 60°C (-40°F to 140°F)
With Pump:	-20°C to 60°C (-4°F to 140°F) 0-100% RH and condensing humidity
MECHANICAL INTERFACE	
2 x cable entry points with 3/4" NPT threads (left and right) 2 x 3/4" NPT to M20 stainless steel (supplied)	
DIMENSIONS	
Without Pump:	200 H x 190 W x 125 D mm (7.9" H x 7.5" W x 5" D)
With Pump:	290 H x 190 W x 125 D mm (11.5" H x 7.5" W x 5" D)
MOUNTING POINTS 2 x M8	
INPUT POWER	
Working Voltage:	12 to 40 Vdc
Maximum Power:	7 watts
OUTPUTS	
4 to 20 mA (active and passive) RS485 supports Modbus® protocol Relay x 2 SPST (60 Vdc 2A) - configurable	

* Based on Isobutylene gas

** When set to continuous measurement

Modbus® is a registered trademark of Schneider Electric

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