



FALCO

FIXED VOC DETECTOR

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 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

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, North American and Canadian standards

...PID detection you can trust!



REPSS Corporate Office
1656 Townhurst Dr, Suite E
Houston, TX 77043
Unrivaled Gas Detection

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Sales & Service
866-657-3777
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www.repss.com

V2.2
Issue 2018

FALCO is the latest generation of fixed photoionization detectors (PIDs) from ION Science 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. In addition FALCO incorporates patented Fence Electrode Technology, which negates the effects of airborne humidity .

FALCO gives you cutting-edge performance; reliability, accuracy and results you can trust so you can be sure workforce and plant receive on-going maximum protection. With its humidity resistance and anti-contamination design drift is minimized and run-time extended, saving both time and cost to your business.

Offering the ultimate in safety FALCO overcomes false readings found with other PIDs. Its multi-colored LED status display can be seen from a distance of twenty meters in direct sunlight ensuring you are clearly alerted to hazards present.

FALCO has an externally located Intrinsically Safe sensor for quick and easy servicing without the need for a hot work permit. Dual certification allows FALCO to be serviced in a hazardous environment without having to remove power.

Simple to operate FALCO has an intuitive user interface. It has five magnetic switches with LED confirmation, a high contrast OLED screen and graphical interface ensuring installation and servicing are both quick and easy.



RS485 (Modbus®), 4-20 mA and Relay outputs are standard for all models. The Relay outputs are configurable for either high and low alarms, fault conditions or test cycle synchronization.

FALCO offers the ultimate in flexibility and can be purchased as one of four detection ranges in either a pumped or diffused variant. With a diffused model servicing costs are kept to a minimum with no pump to maintain.

Extend your FALCO Instrument Warranty

Registering your product online within one month of purchase will extend its warranty. Visit www.ionscience.com/instrument-registration

Applications include:

- 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



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Sensor

- Photoionization with 10.6 eV lamp

DETECTION RANGES AND SENSITIVITY

- 10.0 ppm* 0.001 ppm
- 50.0 ppm* 0.01 ppm
- 1000 ppm* 0.1 ppm
- 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: 35 mm (w) x 17.5 mm (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

- II 2G Ex d ib IIC T4 Gb
- Class 1, Div 1 Groups ABCD T4
- 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
- With pump: 290 (h) x 190 (w) x 125 (d) mm

MOUNTING POINTS

- 2 x M8

INPUT POWER

- Working voltage: 12 to 40 Vdc
- Max. power: 7 watts



Diffused Model



Pumped Model

Falco VOC System	Description
FAXSXBXX-10D	Falco 0.001-10ppm Diffused
FAXSXBXX-50D	Falco 0.01-50ppm Diffused
FAXSXBXX-1000D	Falco 0.1-1000ppm Diffused
FAXSXBXX-3000D	Falco 1-3000ppm Diffused
FAXSXBXX-10P	Falco 0.001-10ppm Pumped
FAXSXBXX-50P	Falco 0.01-50ppm Pumped
FAXSXBXX-1000P	Falco 0.1-1000ppm Pumped
FAXSXBXX-3000P	Falco 1-3000ppm Pumped

* Based on Isobutylene gas

** When set to continuous measurement Modbus® is a registered trademark of Schneider Electric



Falco Access.	Description
846216	MiniPID Electrode Stack Removal Tool
873201	Calibration Adaptor
873202	Magnetic Actuator
873206	Sensor Cover
873207	Light Guard
873208	O-Ring Small (PID mating seal)
873209	O-Ring Large
873210	PTFE Filter Disc
873211	O-Ring Holder
873222	Housing PID Falco - Pumped
873223	Bracket Pump Mounting Falco
873224	Housing Pump Falco
873300	Software VOC Log Falco NO DISCOUNT
5/JHS-14	Fitting Barbed M5 Pumped Falco
LA4SFL3.2	Falco Long Life Lamp (3.2V to 3.6V) 10.6eV
MP6SM6FWXU2	MiniPID 2 Falco White
MP6SM6FOXU2	MiniPID 2 Falco Orange
A-31063	PID Lamp Cleaning Kit
A-846627	Falco Electrode Stack White
	NOTE. Use with Falco 10ppm and 1,000ppm
A-846629	Falco Electrode Stack Orange
	NOTE. Use with Falco 50ppm and 3,000ppm
A-873227	Kit O-Ring Replacement Pumped Falco
A-873228	Kit Pump Replacement Pumped Falco
A-873230	Kit Flow Adaptor Falco (Diffusion)

