

FALCO

FIXED VOC DETECTOR



DESIGNED FOR CONDENSING ATMOSPHERES
AND EXTREME WEATHER.

ionscience.com

Unrivalled Gas Detection.





WORLD'S SAFEST PID TECHNOLOGY IS NOW EVEN SAFER! FALCO EVEN WORKS WITHIN CONDENSING ATMOSPHERES AND EXTREME WEATHER.

Ultimate performance

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

Ultimate safety

- Eliminates false readings found with other PIDs
- Multi-coloured status display seen from 20 metres in sunlight
- Fitted with long-life lamp for one year of continuous use
- Exd approved
- Intrinsically safe; meets ATEX, IECEx, North American 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!



Diffused 10.6eV model

FALCO is the latest generation of fixed photoionisation 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 minimised and run-time extended, saving both time and cost to your business.



Pumped TAC
(10.0eV) model



Offering the ultimate in safety FALCO overcomes false readings found with other PIDs. Its multi-coloured LED status display can be seen from a distance of twenty metres 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 synchronisation. 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.

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

FALCO with 10.6eV lamps				
Range	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	✓	✓	✓	✓

FALCO TAC with 10.0eV electrode stack				
Range	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		✓		

Extend your FALCO instrument warranty

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



Technical specifications

Sensor

- Photoionisation

Detection ranges and sensitivity with 10.6eV lamp fitted

- 10.0 ppm* 0.001 ppm
- 50.0 ppm* 0.01 ppm
- 1000 ppm* 0.1 ppm
- 3000 ppm* 1 ppm

Detection ranges and sensitivity with 10.0eV lamp fitted

- 50.0 ppm* 0.01 ppm

Detection time (T90)

- Diffused models: <30 seconds**
- Pumped models: Variable

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 Exd ib IIC T4 Gb
- Class 1, Div 1 Groups ABCD T4
- ISO9001:2015

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

FALCO V1.8 UK This publication is not intended to form the basis of a contract and specification 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.

** When set to continuous measurement

Modbus® is a registered trademark of Schneider Electric

Manufactured by:

ION Science Ltd

The Hive, Butts Lane,
Fowlmere,
Cambridgeshire,
SG8 7SL, UK

T +44 (0)1763 208503

E info@ionscience.com

Service van EURO-INDEX

EURO-INDEX verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.

Geautoriseerd Service Centrum

EURO-INDEX is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen gebruikt en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

Service- en kalibratielaboratorium

EURO-INDEX beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



KWS®

KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

Digitale toegang tot uw kalibratiecertificaten met Mijn KWS

Via het Mijn KWS webportal heeft u altijd en overal toegang tot uw kalibratiecertificaten en gerelateerde documenten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

EURO-INDEX Academy

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's

Bekijk de video op ons YouTube kanaal en ontdek alles over KWS



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

Wijzigingen voorbehouden EURO-INDEX® VL 17001

Het Bluetooth® woord- en beeldmerk zijn eigendom van Bluetooth SIG, Inc. Gebruik van deze merken door EURO-INDEX geschiedt onder licentie.



BELGIË

Leuvensesteenweg 607
1930 Zaventem
T: 02 - 757 92 44
F: 02 - 757 92 64
info@euro-index.be
www.euro-index.be

NEDERLAND

Rivium 2e straat 12
2909 LG Capelle a/d IJssel
T: +31 - (0)10 - 2 888 000
F: +31 - (0)10 - 2 888 010
verkoop@euro-index.nl
www.euro-index.nl

