

The background of the advertisement features an industrial facility with several tall, cylindrical smokestacks emitting white plumes of smoke against a blue sky with scattered white clouds. In the foreground, two FALCO gas detectors are prominently displayed. The detector on the left is a standard model with a white circular face and a green LED display showing '0.000 ppm'. The detector on the right is a pumped model, labeled 'FALCO TAC', with a similar white face and green display showing '0.00 ppm'. Both detectors have a silver-colored metal probe extending downwards. The overall scene is set in a bright, sunny environment.

FALCO

AND FALCO TAC, PUMPED MODEL

DESIGNED FOR CONDENSING ATMOSPHERES
AND EXTREME WEATHER.

ionscience.com

Unrivalled Gas Detection.





FALCO ELIMINATES FALSE READINGS FOUND WITH OTHER COMPETING TECHNOLOGY, GIVING YOU RELIABILITY, ACCURACY AND RESULTS YOU CAN TRUST

Overview

FALCO and FALCO TAC are part of the latest generation of fixed photoionisation detectors (PIDs) from ION Science that continuously detect a wide range of volatile organic compounds (VOCs).

Designed for working in the most extreme conditions, its unique Typhoon Technology safeguards the sensor from condensing humidity while its anticontamination design allows maintenance free operation for extended periods in the harshest environments. FALCO also incorporates ION Science's patented Fence Electrode Technology for the most accurate PID performance over all humidities.

FALCO can operate as a standalone detector with its bright multi-coloured status display and can also be easily integrated into any system via analogue 4-20 mA, Modbus RS-485 and relays.

For ease of maintenance, FALCO can be serviced without the need for removing power or using a hot work permit with no tools. FALCO's easy to navigate, 5 magnetic switch interface with LED confirmation ensures installation, setup and servicing is quick and simple.

FALCO is supplied with a 10.6 eV lamp allowing the instrument to detect a wide range of VOC gases whereas FALCO TAC utilises a 10.0 eV lamp to detect Total Aromatic Compounds (TACs), which helps focus on benzene.

The FALCO and FALCO TAC pumped instruments are ideal for detecting VOCs and TACs in difficult locations such as underground or in confined spaces. The pumped model uses a sample line to draw a sample from a fixed location.

The pumped variant can also be used to sample VOCs from industrial processes.

Extreme Conditions

- Specifically designed for extreme weather
- Built-in Typhoon Technology to stop condensation forming within the PID sensor
- Anti-contamination design
- Ingress protection rating IP65

Ultimate Safety

- Patented fence electrode gives best in class performance over all humidities
- Anti contamination design provides long term accurate results
- Multi-coloured status display visible from 20 metres in direct sunlight
- High visibility OLED display

Ease of maintenance & low cost of ownership

- Easy to navigate unique 5 magnetic button interface
- No tools required to field service
- Dual certification allows access to serviceable areas in hazardous zones
- Warranted 10,000 hour lamp life
- Easy to replace electrode stack



Applications

- Safety
- Industrial hygiene
- Fugitive emissions
- Fence line monitoring
- Air quality monitoring
- Fertility labs
- Glove boxes
- Fume cupboards
- Process control
- HVAC
- Plant shut down & turnaround

Dual Certification

Dual IS and ExD certification allows FALCO to be serviced in hazardous environment without using a hot work permit.

Certification	
ATEX	II 2G db Ib IIC T4 Gb
UL/CSA	Class 1, Div 1 Groups ABCD T4

Four Detection Ranges

- FALCO and FALCO TAC diffused have four detection ranges

Range (ppm)	0-10	0-50.0	0-1000	0-3000
Sensitivity (ppm)	0.001	0.01	0.1	1
FALCO (10.6 eV)	✓	✓	✓	✓
FALCO TAC (10.0 eV)		✓		

Extend your FALCO warranty

Registering your product online within one month of purchase will extend its warranty.



Pumped 10.6eV model



Pumped TAC (10.0eV) model



Technical specifications

Sensor

- Photoionisation detector

Falco 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

Falco detection ranges and sensitivity with 10.0eV lamp fitted*

- 50.0 ppm, 0.01 ppm

Response time (T90)

- Pumped models: <10 Seconds**

Accuracy

- $\pm 5\%$ or ± 1 digit

User interface

- OLED high contrast white on black: 128 x 64 pixels
- Screen size: 35 mm (w) x 17.5 mm (h)
- 5 magnetic switches with LED confirmation (up, down, left, right & enter)

Status indicator

- Bright visible status indicator: RED, AMBER, GREEN

Output

- 4 - 20 mA
- 2 programmable relays
- RS 485 Modbus

Falco pumped environmental specification

- Operational temperature: -20 °C to 50 °C 0-100% RH and condensing humidity
- Storage temperature: -20 °C to 60 °C

Ingress Protection

- Main unit: IP65
- Sensor head: IP65

Power

- Working voltage: 12 to 40 Vdc
- Typical 2 W, Max. 7 watts

Mechanical interface

- 2 x cable entry points with 3/4" NPT threads (left and right)

Mounting points

- 2 x M8

Weight & Dimensions (with pump)

- 3.3 kg
- 291 (h) x 191 (w) x 125 (d) mm

EMC

- EMC Directive 2014/30/EU

Certification

- II 2G db ib IIC T4 Gb
- Class 1, Div 1 Groups ABCD T4
- ISO9001:2015

FALCO V1.9 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.

** When set to continuous measurement

Specifications are based on isobutylene calibration at 20 °C and 1000 mBar.

Modbus® is a registered trademark of Schneider Electric

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Het laboratorium in Nederland beschikt over een RvA accreditatie naar EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105. RvA kalibratiecertificaten zijn internationaal geaccepteerd en is gelijkwaardig aan BELAC.



Mobiele Service

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

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KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal (mijnkws.be) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

Verhuur van meetinstrumenten

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

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- Demonstratie- en instructievideo's
- Application notes



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