

IR PLUS

Infrared Gas Detector with Intelligent Heater Optics

A dual beam infrared hydrocarbon detector providing real-time, fail-safe detection and exceptional reliability in harsh environments.



IR Plus is a dependable, durable, and exceptionally sturdy dual-beam infrared hydrocarbon gas detector. With optional display capabilities, this device ensures swift and fail-safe detection of methane, butane, propane, and various other hydrocarbon further enhances its reliability, making it an ideal choice for demanding environments.



Industry Leading Warranty

With its industry leading 5 year warranty, IR Plus offers peace of mind and reduced maintenance costs.



Fast Response Time

With a response time of just 4 seconds, IR Plus gives you the information you need fast.



Intelligent Heated Mirror

Heated optical components combined with Stay-clIR coating ensures reliable performance in high temperature and humidity conditions.



High Stability in Harsh Conditions

IR Plus outperforms its nearest competitors when operating under high temperature and humidity conditions.



Remote Non-Intrusive Calibration

IR plus can be tested/calibrated on site in multiple ways; Fixed Display, Remote Display (up to 3m), and local-HART.

Multiple Outputs

IR Plus comes with standard 4-20 mA analogue and RS-485 (Modbus) outputs with Local-HART & HART over 4-20 mA options.



MOUNTING OPTIONS



Wall Mount

Enables mounting to a wall.



Pipe Mount

Enables mounting to a 2" (50mm) pipe.



Duct Mount

Enables monitoring of ducts from 300mm to 3000mm, and air flow between 2m/s and 20 m/s.



Junction Box

Enables mounting of IR Plus and junction box to a 2" (50mm) pipe.

DISPLAY OPTIONS



IR Plus



IR Plus with fixed display



IR Plus with IS barrier module



IR Plus with remote display

SPECIFICATIONS

| | |
|--------------------------------|--|
| GASES | Methane, Propane Contact Crowcon for more target gases |
| SIZE | 194mm x 119mm x 94.2mm (7.6 x 4.7 x 3.7 ins) |
| WEIGHT | 4.1kg (9.0lbs) IR Plus 4.5kg (9.92lbs) IR Plus with Fixed IR Display 4.9kg (10.8 lbs) IR Plus with IS Barrier Module 0.2kg (0.4 lbs) IR Plus Remote Display |
| ENCLOSURE MATERIAL | 316L Stainless Steel |
| RESPONSE TIME (T90) | 4 seconds |
| PERFORMANCE | Zero Drift: ±2% FSD per year Repeatability: ±2% FSD Linearity: ±2% FSD |
| IR SOURCE | Heated optics with Stay-clIR coated mirror |
| OPERATING VOLTAGE | 12Vdc to 30Vdc |
| POWER | < 5.5 W |
| OUTPUT | 3-wire 4-20 mA (Sink or Source) 2mA dirty optics warning (at 75% obscuration, configurable) 0mA detector fault signal (at 90% obscuration, configurable) RS-485 Modbus HART 7 (optional) |
| FAULT SIGNAL | <1 mA |
| CONNECTION/PORT ENTRIES | 2 x M20 or 2 x ¾"NPT cable gland entry |
| OPERATING TEMPERATURE | -40°C to +70°C (-40°F to 158°F) |
| HUMIDITY | 0 to 95% RH non-condensing |
| DEGREE OF PROTECTION* | IP66 (EN60529) IP ratings do not imply that the equipment will detect gas during and after exposure to those conditions |
| FUNCTIONAL SAFETY* | IEC 61508 (SIL2), EN50402 |
| PERFORMANCE STANDARDS* | EN 60079-29-1 |
| HAZLOC STANDARDS* | IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60079-31 EN 60079-0, EN 60079-1, EN 60079-11, EN 60079-31 |
| EMC COMPLIANCE | EN50270:2015, FCC CFR47 Part 15B, ICES-003 |
| WARRANTY | 5 years |

*Pending

Disclaimer

Due to ongoing research and product improvement, specifications are subject to change without notice. While every effort has been made to ensure accuracy in this document, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This document is not intended to form the basis of a contract.

For more information:

t: +44 (0)1235 557700
e: info@crowcon.com
w: www.crowcon.com

Locate your Regional Sales Representative at:
www.crowcon.com/contact-us/where-to-buy

© 2024 Crowcon Detection Instruments Ltd.