FIXED SYSTEMS

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 it's industry leading 5 year warranty, IR Plus offers peace of mind and reduced maintanance 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-cllR coating ensures reliable performance in high temperature and humidity conditions.



High Stability in Harsh Conditions IR Plus outperforms it's 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.

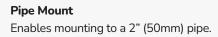


MOUNTING OPTIONS



Wall Mount Enables mounting to a wall.







Duct Mount

IR Plus

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



Junction Box Enables mounting og IR Plus and

junction box to a 2" (50mm) pipe.

DISPLAY OPTIONS



IR Plus with IS barrier module

IR Plus with fixed display

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.

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