

# IR PLUS

## Infrared Gas Detector with Intelligent Heated Optics

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



IR Plus is a dependable and exceptionally sturdy infrared hydrocarbon gas detector, that features state-of-the-art dual IR waveband technology. With optional display capabilities, this device ensures swift and fail-safe detection of methane, 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 Testing

Easily test on-site with options for Fixed Display, Remote Display (up to 3m), and local-HART.



### Multiple Outputs

Standard 4-20 mA analogue and RS-485 (Modbus) outputs, plus Local-HART & HART over 4-20 mA options.

## MOUNTING OPTIONS

	<b>Wall Mount</b>
	<b>Pipe Mount</b>
	<b>Duct Mount</b>
	<b>Junction Box</b>

## DISPLAY OPTIONS

	<b>No Display</b>
	<b>Fixed Display</b>
	<b>IS Barrier</b>
	<b>IS Barrier with Remote Display</b>

# SPECIFICATIONS

<b>GASES</b>	Methane, Propane Contact Crowcon for more target gases
<b>SIZE</b>	194mm x 119mm x 94.2mm (7.6 x 4.7 x 3.7 ins)
<b>WEIGHT</b>	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
<b>ENCLOSURE MATERIAL</b>	316L Stainless Steel
<b>RESPONSE TIME (T90)</b>	4 seconds
<b>PERFORMANCE</b>	Zero Drift: ±2% FSD per year Repeatability: ±2% FSD Linearity: ±2% FSD
<b>IR SOURCE</b>	Intelligent heated optics with Stay-clIR hydrophobic mirror
<b>OPERATING VOLTAGE</b>	12v DC to 30v DC
<b>POWER</b>	< 5.5 W
<b>OUTPUT</b>	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)
<b>FAULT SIGNAL</b>	<3.6 mA and/or >21mA
<b>CONNECTION/PORT ENTRIES</b>	2 x M20 or 2 x ¾"NPT cable gland entry
<b>OPERATING TEMPERATURE</b>	-40°C to +70°C (-40°F to 158°F)
<b>OPERATING HUMIDITY</b>	0 to 95% RH non-condensing
<b>DEGREE OF PROTECTION</b>	IP66 (EN60529) IP ratings do not imply that the equipment will detect gas during and after exposure to those conditions
<b>FUNCTIONAL SAFETY</b>	IEC 61508*, EN 50402*, SIL2*
<b>PERFORMANCE STANDARDS</b>	IEC EN 60079-29-1*
<b>HAZLOC STANDARDS</b>	EN IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60079-31 EN IEC 60079-0, EN 60079-1, EN 60079-11, EN 60079-31
<b>APPROVALS</b>	ATEX, IECEX, INMETRO*, CCC*, PESO*, ECAS*, FM*
<b>EMC COMPLIANCE</b>	EN50270, FCC CFR47 Part 15B, ICES-003
<b>WARRANTY</b>	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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