

THE INFRARED GAS DETECTOR THAT PROVIDES UNBEATABLE PERFORMANCE.

The Searchpoint Optima Plus is an infrared fixed-point gas sensor certified for use in potentially explosive atmospheres. The unit's infrared detection principle offers the fastest speed of response and fail-to-safe operation, ensuring that your staff are protected, and your production facilities can deliver maximum uptime.

Reduced routine maintenance, when compared with conventional electrocatalytic-based gas sensors, ensures a low ongoing cost of ownership. Advanced internal fault diagnostics and false alarm rejection algorithms ensure the Searchpoint Optima Plus delivers the highest level of operational integrity.



Different options are available depending on the certifications and functions needed. Options: Different options are available depending on the certifications and functions needed.

BENEFITS

- Self-monitoring operation
- Fast response time
- Reduced routine maintenance
- Immune to catalytic poisons
- Extended service lifetime
- Can be used in inert atmospheres
- Dynamic heating control ensures condensation-free optics
- Reduced power consumption
- Over 100 gas and vapour calibrations available

TECHNICAL DATA

▶ Size	6.30 x 2.75 in. / 16.5 x 7.3 cm (optima only)
Weight	2.2 lbs / 1.6 kg
▶ Protection Class	IP 66/67
Signal Output	4-20mA autosensing sink or source, 3 wire cable
▶ Digital Output	4-20mA autosensing sink or source, 3 wire cable
Response time	T50 < 3 seconds, T90 < 4 seconds (methane)
▶ Temperature	-40°F to 149°F / -40°C to +65°C
Humidity	0 to 99% HR
▶ Power supply	18-32Vdc (24Vdc nom), < 4.5W max
Relay outputs	available in option (when Optima plus comes with transmetteur XNX relay)
▶ Approvals	ATEX: II 2 GD Ex d IIC Gb Ex tb IIIC Db, T96°C (Tamb -40°C to +65°C), T86°C (Tamb -40°C to +55°C) IECEX: Ex d IIC tb IIIC T86°C (Tamb -40°C to +55°C) or T96°C (Tamb -40°C to +65°C) IP66/67 EMC: EN 50270:2006, EN 50271:2010
Performance	CSA C22.2 152, FM ANSI/ISA-12.13.01, EN 60079-29-1 (BVS 03 ATEX G 016 X), Functional Safety IEC61508 Safety Integrity Level 2



HONEYWELL ANALYTICS JUNCTION BOX

- ATEX and IECEx approved
- Ex e housing
- One M25 cable entry and three M20 cable entries



OELD JUNCTION BOX

- ATEX and IECEx approved
- Ex e housing
- Five M25 cable entries (ATEX/IECEX version)
- Local display
- 'Traffic-light' visual status indication
- Bluetooth communication for non-intrusive connexion.



XNX UNIVERSAL TRANSMITTER

- ATEX, IECEx, UL and CSA approved
- Five 3/4" NPT or M25 cable entries
- Local display
- Magnetic switches for non-intrusive access
- HART communication
- Non-intrusive connection for a handheld HART device (optional)
- Modbus communication (optional)
- Relays (optional)