MSA
The Safety Company

Ultima XIR Gas Monitor

Infrared technology with display for combustible gas detection

The Ultima XIR Gas Monitor is a microprocessor-based, infrared point gas detector for continuous monitoring of combustible gases and vapors. Designed using a rugged, 316 stainless steel enclosure, this monitor operates with dual-wavelength, heated-optics technology, providing definitive compensation for temperature, humidity and aging effects. IR technology offers excellent long-term stability, eliminates the need for frequent calibrations and reduces overall cost of ownership.

Reliability

- DuraSource technology offers improved IR sensor life
- Extremely fast speed of response
- Designed without sintered disk for optimum performance within harsh, offshore environments
- Operates over extended temperature ranges
- Immune to poisoning
- Operates in high-gas and low-oxygen environments
- Operation fail-to-safety
- 10-year source warranty

Ease of Use

- 4-20 mA, HART and Modbus (X^3 output)
- LCD display with scrolling messaging
- Single-board design for ultimate reliability and easy, no-tool servicing
- Optional quick-check LEDs for increased product visibility
- No-gas calibration; zero adjustment is all that is required for full calibration

Flexibility

- Field-selectable algorithms for many hydrocarbon-based gases
- Optional field-programmable relays feature three alarm levels and one fault

Durability

- 316 stainless steel explosion-proof, multiple-entry-mounting enclosure
- No moving parts, jumpers, switches, or pots
- Sensor life is not reduced by exposure to gas

Specifications for Ultima XIR Gas Monitor	
GAS TYPES AND RANGES	Combustible gases & vapors; 0-100% LEL
TEMPERATURE RANGE	-40˚F to 140˚F (-40˚C to 60˚C)
STABILITY	±5% full scale/year
REPEATABILITY	±1% full scale
ACCURACY	±3% full scale (≤50% LEL) ±5% full scale (>50% LEL)
RESPONSE TIME (W/O SENSOR GUARD)	T90 <2 sec.
HUMIDITY	0%-95% RH, non-condensing
SENSOR WARRANTY	10 years for IR source
POWER INPUT	10-30 VDC, 5 watts
WIRING REQUIREMENTS	3-wire
SIGNAL OUTPUT	4-20 mA 3-wire current source
RELAY CONTACT RATING	5 amp @ 230 VAC; 5 amp @ 30 VDC
PHYSICAL WEIGHT DIMENSIONS	316 stainless steel 10.8 lbs. (4.9 kg) 12.6" W x 3.9" D x 5.7" L (320 x 99 x 144 mm)
APPROVAL RATINGS	cFMus, cULus, CSA Class I, Div. 1 and 2, Groups B, C, & D Class II, Div. 1, Groups E, F, & G Class III ANSI/ISA 12.13.01 CSA C22.2 No. 152 Combustible Gas Performance CE EMC Directive: 89/336/EEC CE ATEX Directive: 94/9/EC II 2G EEx d IIc T5 (Tamb -40˚C to +60˚C) TYPE 4X, IP 66 SIL 2 certification

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