Magnum & Magnum II
Combustible Gas Detectors 0-100% LEL

- Single or Dual Channel Versions

- Low Power operation standard

- 12Vdc or 24Vdc Supply Voltage

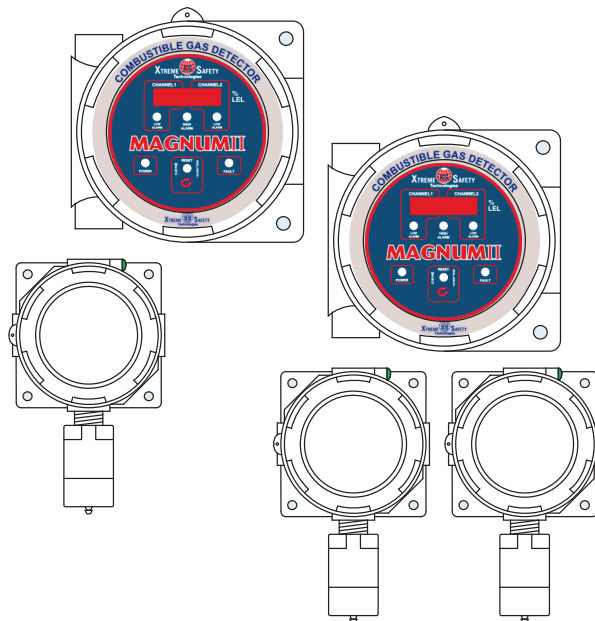- CSA C22.2 Performance Tested and Certified

INTELLIGENT DETECTOR

System status, configuration and set up is indicated by scrolling full text across the display. (No fault look up tables)

BRIGHT DISPLAY

High Intensity bright LEDS indicate alarm and detector status conditions. The display is visible in both lighted and non-lighted conditions.

NON-INTRUSIVE

Calibrations and Configurations are performed with out the need to remove the cover by using Magnetic activation.

The MAGNUM-LEL and MAGNUM II-LEL are intelligent industrial gas detectors designed for safe continuous monitoring of combustible gases and vapors in the 0-100% LEL (Lower Explosive Limit) range. Both the MAGNUM-LEL (single channel) and MAGNUM II-LEL (dual channel) monitors feature the latest advanced microprocessor technology and sensing elements, designed for the most extreme hazardous environments. Additionally, the Magnum series gas detectors are Performance Certified for responsiveness in varied conditions.

The Controller/Display features a highly visible bright red alpha numeric "8" character LED display and oversized bright LED's that that indicate alarm and status conditions. Detector health and configuration are communicated clearly with full scrolling text messages. Resetting alarms and system configuration is achieved by a magnetically activated Reed Switch or Push Button located on the display. The Magnum series gas detectors provide the brightest and most visible displays in the industry.

Specifications

Display:	Bright Red Scrolling LED 8 character Alpha Numeric
Sensor Type:	Pellistor (Catalytic Bead) Poison Resistant, Low Temperature, Continuous Diffusion
Sensor Life:	Typically 3 to 5 years
Storage Life:	Indefinitely when stored in original packaging
Cycle for Calibration:	90 days recommended
Supply Voltage:	9VDC to 28VDC

Power Consumption:

Magnum
Nom - 1.2W to 1.4W @12Vdc*
Nom - 1.5W to 1.7W @24Vdc*
Max - 1.4W to 2.0W @12Vdc*
Max - 1.8W to 2.3W @24Vdc*

Magnum II
Nom - 2.2W to 2.4W @12Vdc*
Nom - 2.6W to 2.8W @24Vdc*
Max - 2.5W to 3.3W @12Vdc*
Max - 3.72W to 3.9W @24Vdc*

Response time:	T90<30seconds to 100% LEL T50<10 seconds to 100% LEL T60<10 seconds as per CSA Flooding Test (100% methane by volume in air)
Accuracy:	+3% up to 50% LEL, +5% above 50% LEL
Zero Drift:	< 5% per year
Repeatability:	+2% LEL
Measuring Range:	0-100% LEL hydrocarbons, Including Hydrogen
Sensor Separation: (16AWG)	Max - 1492m(4892feet) @ 24Vdc* Max - 373m(1223feet) @ 12Vdc*

*Refer to Magnum-LEL / Magnum II-LEL Installation and Operations Manual for specific configurations

Standard Outputs:	4-20mA
Optional Relays:	High, Low, and Fault, Mechanical or Solid State (for low powered applications)
Optional Digital:	Modbus RS485 RTU Protocol (contact factory)
Temperature:	Certified: -55C to +85C (-67F to+185F)
	Storage: -55C to +85C (-67Cto +185C)
Humidity:	0 to 100% relative humidity, non-condensing
Enclosure Type:	Nema 4X, IP56
Pressure Limits:	Up to 304 kPa (3 atmospheres)
Certification:	CSA Certified (Canada and US): Class I, Division 1, Groups B,C,D T5 Class I, Division 2, Groups A,B,C,D T4 Ex d IIB + H2 T5 / AEx d IIB + H2 T5 Ex nC IIC T4 / AEx nC IIC T4 Seals are not required for Div 2 / Zone 2 installations
Warranty:	Electronics - 3 years, Sensor - 2 years

Specifications subject to change without notice

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