



Gas & Fire Monitoring Systems

Hazardous Area Gas monitoring Systems

PolyXeta II

Sensor series for combustible, toxic gases and O₂ in Zone 1, Zone 2 and hazardous area applications

DESCRIPTION

Microprocessor based gas sensor with 4 – 20 mA / RS 485 output signal for monitoring the ambient air and detecting flammable gases and vapours, toxic gases and oxygen with different sensor elements. The gas sensor is available in the types "Ex dem [ib]" (also to be opened in Zone 1 at any time) and "Ex d" (only to be opened in Zone 2 at any time).

The calibration for types **without LCD display** is possible via the handheld calibration device. The types **with LCD display** have a non intrusive magnetic calibration feature for easy calibration without opening the instrument and declassifying the area. In case of alarm or faults of the sensor, the backlight of the LCD display changes from green to red.



FEATURES

- ATEX and IEC Ex certifications MSR Electronic
- Safety integration level 2 (SIL2)
- Type "Ex dem[ib]" to open in Zone 1 without switching off
- Type "Ex d" with flameproof enclosure
- Continuous monitoring
- Microprocessor with 12 bit converter resolution
- Self diagnostic procedure
- Watch dog switch
- 4 to 20mA proportional output
- Reverse polarity protected
- Overload-proof
- Easy calibration
- Opening of the housing during operation possible (dem [ib])
- LCD display with status LED (optional), LCD Backlight green /red
- Faulty relay (optional); LCD Backlight changes from green to red
- Alarm relay (optional); LCD Backlight changes from green to red
- Serial bus to controller (optional)

Hazardous Area Flame Detector

Type	Model	Detection Range	Field of View	Protection	Explosion Proof	Class	Enclosure	Dimension	Certificate	Weight
IR3	RFD-300x	200ft(60m)	H:90° V:90°	IP67	FM US ATEX	IIB+H2 T5	SUS 316	W134 x H117 x D120mm	FM 3260	3.5kg

Temperature Range	Operation Range: -40°C ~ +75°C Storage Range: -50°C ~ +80°C
Humidity Range	0 ~ 95% Relative Humidity
Operation Voltage	DC 24V (18 ~ 30)
Power Consumption	4.8W maximum at 30VDC
Output	Relays: Fire Alarm, Fault Alarm, Warning Alarm From A or B Selectable, 30VDC, 3A 4-20mA: Fault, Normal, Warning, Alarm RS-485: Proprietary Communication

REZONTECH



Note: Other types like UV/IR, Hydrogen Flame detector (FM, ATEX) also available

Non-Hazardous Area Gas Monitoring System

Gas Sensors/Transmitters:

(CO + Early Fire Detection, toxic, combustible, oxygen and refrigerant gases)

- Built-in micro computer chip at sensor cartridge
- Hardware and software according to SIL2
- 4-20 mA (or 2-10V) analog output (IP65)
- Host of other combustible, toxic, oxygen and refrigerants.
- Other gas types like NO, NO₂, H₂S, SO₂, Cl₂ NH₃, Methane, Propane, R134A, R410A



Standalone Gas Controller:

- Hardware and Software according to SIL 2
- Three analog inputs 4-20 mA with three change-over relay contact
- Weather proof to IP65



Digital/Multi-Channel Gas Controllers:

- For up to 128 gas transmitters, 96 of them are polygard 2 digital and/or 32 of them are analog (4-20 mA)
- Suitable for up to 50 toxic, combustible and refrigerant gas transmitters
- Simple and comfortable commissioning by configuration with standard parameters



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