



EXPLOSION PROOF GAS DETECTION

Flammable gas & Toxic gas

- **Flammable detector range ATEX certified for, Ex2GD, Ex d IIC T6, Ex tD A21**
- **Toxic gas detectors range ATEX certified Ex 2GD, Ex d IIC T6.**

Explosion proof gas detectors are employed to detect either flammable compounds (in terms of LEL), toxic compounds in ppm (parts per million), or Oxygen depletion and enrichment.

The **Pellistor** cells (industrial grade Catalytic sensors) employed for the flammable Gas detection show excellent output linearity up to 100 % LEL.

For the toxic gas detection available for detection of Oxygen and Ammoniac gas detection, the gas detectors has operated a reliable selection among the most performing **electrochemical cells** to supply units representing the state of the art in toxic gas detection.

Flammable gas and toxic explosion proof gas detection range has been designed to offer a wide range of alternatives that grant customers the best solution to their requirements.



Main characteristics

- Non intrusive sensor calibration
- Easy sensor replacement
- Wide range sensor and gases detectable
- IP 65°C
- ATEX certified detectors
- Optional 3 relay contact board. STS3REL

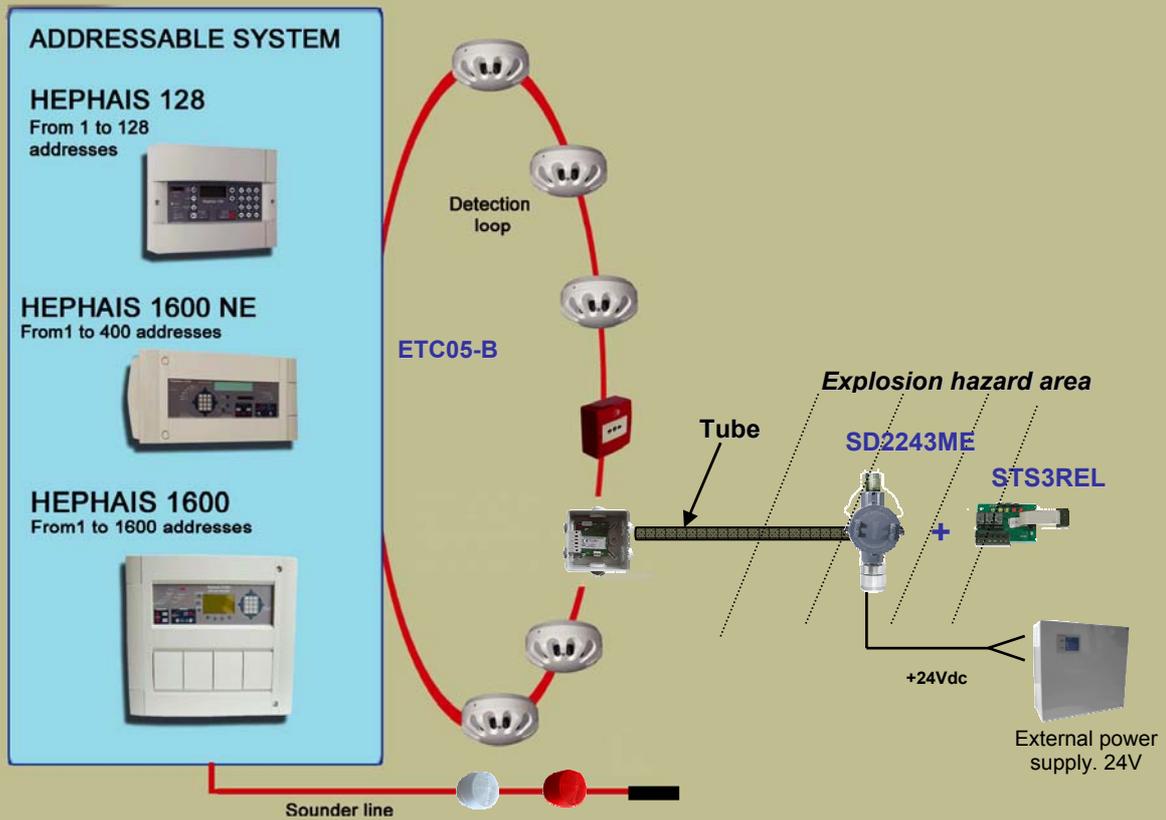
Electrical specification	
Sensing element	Pellistor sensor for flammable gases Electrochemical cells for toxic gases
Measuring range	% LEL for flammable Ppm for toxic % vol for Oxygen (O2)
Power supply	12-24Vdc – 20% +15%
Consumption at 12Vdc	90 mA (medium); 130 mA (max)
Visual indication	Blinking led
Proportional output	4-20mA (200Ohms)
Relays output (optional with STS3REL)	3 relays with tension free changeover contact 24V – 1 A
Mechanical characteristics	
Dimensions	180mm x 65mm
Weight	800g
Climatic characteristics	
Storage temperature	-25°C to +60°C
Operating temperature	Average -20°C to +60°C
Relative humidity	20-90% RH at 40°C
IP rating	IP65



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INSTALLATION DIAGRAM



ZMCAP
Calibration adapter.
(to connect to gas bottle)



Test gas bottle for
calibration for gas detector
testing and calibration



STS/CKD
Calibration keypad
For adjusting the detectors
Zero and span values

Flammable gases

SD2243ME Exd Methane gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2243VB Exd Petrol steam gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2243BU Exd Butane gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2243PR Exd Propane gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2243GP Exd LPG gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2243H2 Exd Hydrogen gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C
 SD2244AM Exd Ammoniac gas detector, 0-100% LEL, Ex 2GD Ex d IIC T6 Ex tD A21 IP65 T85°C

Toxic gases

SD2245O2 Exd Oxygen (O2) 25% Vol. ex 2GD, Ex d IIC T6 IP65
 SD2246AM Exd Ammoniac gas detector, 0-200ppm, ex 2GD, Ex d IIC T6 IP65
 SD2247Am Exd Ammoniac gas detector, 0-1000ppm, ex 2GD, Ex d IIC T6 IP65

Accessories

STS3REL Plug in 3 relay card, NO-NC 30V/1A, to be plugged inside the detector, repeats alarm, prealarm, fault
 ZMCAP Calibration adapter
 STS/CKD Calibration keypad to adjust the detector zero and span values.