



EXPLOSION PROOF GAS DETECTORS

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

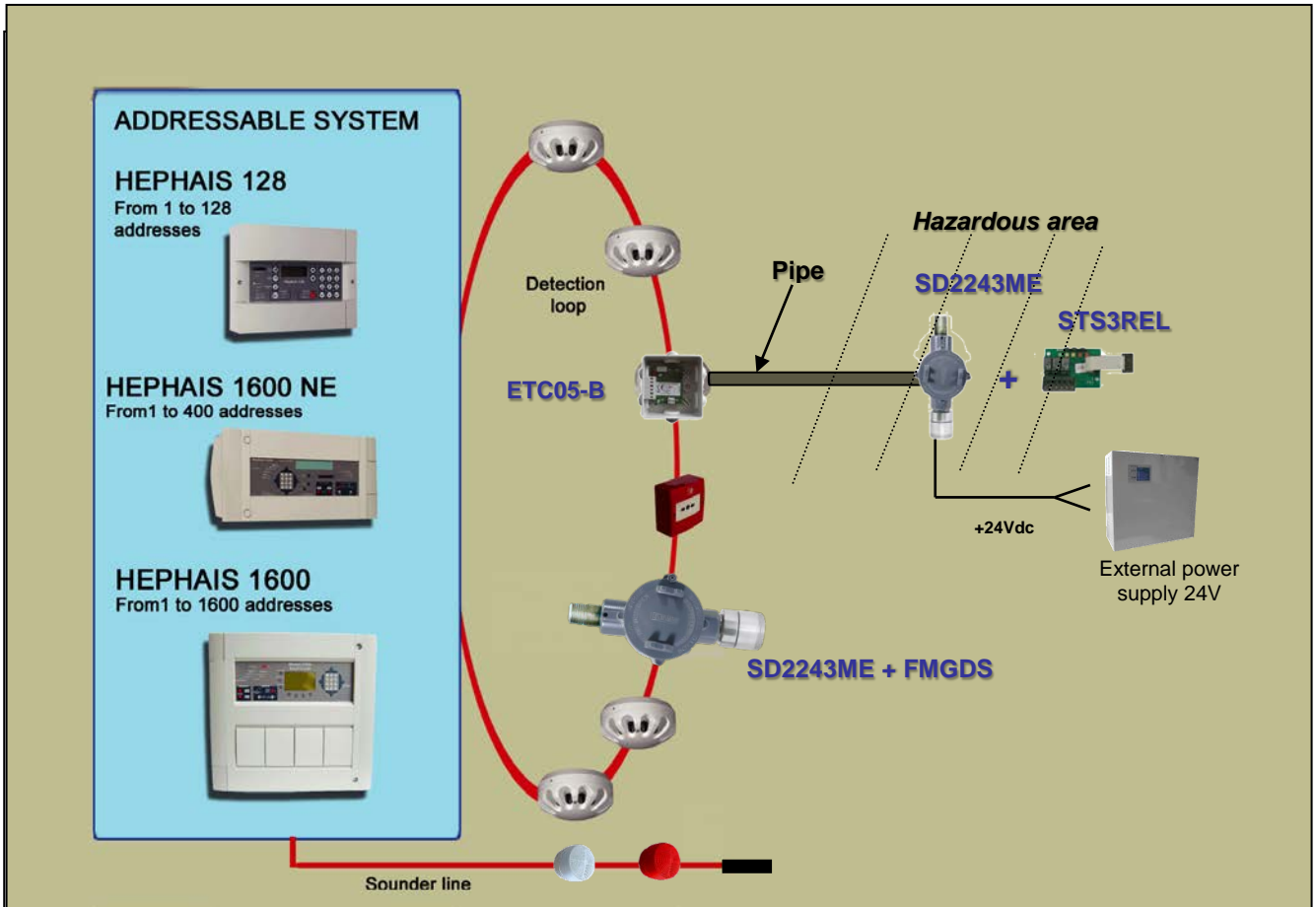
- Non intrusive sensor calibration
- Easy sensor replacement
- Wide range sensor and gases detectable
- IP 65
- ATEX certified detectors
- Optional 3 relay contact board. STS3REL
- Optional addressable loop card

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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Flammable gas & Toxic gas



ZMCAP
Calibration adapter
(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
SD2243VB
SD2243BU
SD2243PR
SD2243GP
SD2243H2
SD2244AM

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

Toxic gases

SD2245O2
SD2246AM
SD2247AM

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

Infrared detector

S2651CO2

Exd Carbon dioxide gas detector 2% Vol-Ex II 2G G-C2 IR IP65

Accessories

STS3REL
ZMCAP
STS/CKD
FMGDS

Plug in 3 relay card, NO-NC 30V/1A, to be plugged inside the detector, repeats alarm, prealarm, fault
Calibration adapter
Calibration keypad to adjust the detector zero and span values
PLUG-IN addressable loop powered card for SD explosion proof gas detectors. It takes 2 addresses

