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

**Electrical specification**

| Sensing element          | Pellistor sensor for flammable gases  
<table>
<thead>
<tr>
<th></th>
<th>Electrochemical cells for toxic gases</th>
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</thead>
</table>
| 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**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>180mm x 65mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>800g</td>
</tr>
</tbody>
</table>

**Climatic characteristics**

<table>
<thead>
<tr>
<th>Storage temperature</th>
<th>-25°C to +60°C</th>
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<tbody>
<tr>
<td>Operating temperature</td>
<td>Average -20°C to +60°C</td>
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</table>
| Relative humidity        | 20-90% RH at 40°C  
| IP rating                | IP65  |
EXPLOSION PROOF GAS DETECTOR

Flammable gas & Toxic gas

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 for adjusting the detectors, zero and span values.

ZMCAP
Calibration adapter (connect to gas bottle)

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

Non contractual document
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