

DG-TT7-S

Solid-State (MOS) Gas Detector



Presentation

The MultiTox DG-TT7-S is a solid state (MOS) based smart gas detector for the detection of Hydrogen Sulphide. The device has been designed to withstand harsh environment and provide easy operation

The unit is fully configurable using a wireless hand-held terminal TLU, using a magnet or by using HART protocol option.

The configuration of the outputs is adjustable using the TLU or the magnet that can be used in areas classified as potentially explosive.

The MultiTox DG-TT7-S is SIL2 certified, 3 on board relays in option, plug and play sensors and a high visible display that changes colour depending on the status mode.

The unit may be interfaced directly with a wide range of centrals and PLC's. The device supports HART 7 protocol option for full configuration and diagnostics over non-proprietary interface.

This new version also offers automatic calibration, **TELECAPTEUR Calibration Management Software.** It allows loading, comparison and logging of the last calibrations carried out and this can be done by one person only. (one man calibration)











TLU Wireless (IR) Hand-held Terminal

Features

- High visible display
- Display color is status dependent
- Ideal for Desert & Artic Environments



Technical data

General

| Technology | Solid-state Metal Oxide Semiconductor |
|------------|---|
| Detects | Hydrogen Sulphide |
| Range | $\begin{array}{c} \text{0-20 ppm H}_2\text{S} \\ \text{0-50 ppm H}_2\text{S} \end{array}$ |

Performance

| Accuracy | +/- 2 ppm or +/- 10% reading |
|-------------|---|
| Zero drift | <1 ppm |
| Sensor life | Better than 5 years (environment dependant) |

Output signal

| - orbor signar | po. 5.9a. | |
|----------------|---|--|
| Standard | 0-22mA encoded: * 0-4mA: fault mode, calibration, inhibit (current values are user configurable) * 4-20 mA: measurement * 22mA: overange Max. load impedance 700 Ohms | |
| Options | HART Protocol (Version 7) 3 configurable dry contact relay outputs, max 1A / 30V Lonworks (Syntel) | |
| Local display | 4 digit, ultrabright LED display, color change background according to the status (green=normal operation, amber=Fault mode, red=Gas Alarm, purple=Inhibit/Warm-Up mode), self adjust backlight depending on luminosity | |

Electrical

| Power supply | 24V DC, range (18 - 35V DC) |
|-------------------|--|
| Power consumption | 2W normal (5W max) |
| Connection | 0.3 mm² (22 AWG) - 2.5 mm² (14 AWG) 3 wire shielded cable |

Environmental

| Storage | -40°C to +65°C (-40°F to +149°F) |
|-----------|-----------------------------------|
| Operation | -40°C to +65°C (-40°F to +149°F) |
| Option | Sunshade, max. temp. 85°C (185°F) |
| Humidity | 99% RH (non-condensing) |
| Pressure | Atmospheric pressure +/- 10% |
| Ingress | IP66 |
| RFI /EMI | Complies with EN50270 |

Housing

| | \ n n v o v o l o | |
|----|-------------------|----------------------|
| ١ | Weight | 4 Kg (8Lbs) |
| _1 | Material | 316L stainless steel |

Approvals

| ATEX | II 2 G Ex d IIC T6 Gb or Ex db IIC T6 (-40°C to +65°C / -40°F to +149°F) |
|-------|---|
| IECEx | Ex d IIC T6 Gb or Ex db IIC T6 |
| SIL | SIL2 approved by 3rd party |

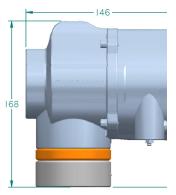
Accessories

| TLU600 | Infrared remote control unit |
|-----------------------|---|
| AS056-250 | Sun shade |
| AS005 | Calibration cup |
| AS047 | Display protection |
| AS011-2 | Sample flow housing |
| AS019 | Splash guard |
| CAL-K1C-xxAE-1 A1 -00 | Calibration kit 20ppm H2S |
| CAL-K1C-31AF-1A1-00 | Calibration kit 50ppm H2S |
| CAL-TUBE-H2S-MOS | In-line humidifiying tube for calibration |

Other products (stainless steel range)

| DG-TT7-E | MultiTox, Toxic Gas Detector |
|--------------|-----------------------------------|
| DF-TV7 or -V | MultiFlame, Flame Detector |
| DG-TX7-X | MultiXplo, Flammable Gas Detector |





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