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) or by using HART protocol option.

The MultiTox DG-TT7-S is SIL2 certified, features on board relays, 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 controllers and PLC's. The device supports HART 7 protocol option for full configuration and diagnostics over non-proprietary interface.











TLU Wireless (IR) Hand-held Terminal

Features

- High visible display
- On board relays
- Display color is status dependent



Technical data

General

Accuracy Zero drift

Sensor life

Technology	Solid-state Metal Oxide Semiconductor	
Detects	Hydrogen Sulphide	
Range	0-20 ppm H ₂ S 0-50 ppm H ₂ S	
Performance		
Response time	T90 < 70 s	

+/- 2 ppm or +/- 10% reading

Better than 5 years (environment dependant)

<1 ppm

Output signal

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Standard	O-22mA encoded: * O-4mA: fault mode, calibration, inhibit (current values are user configurable) * 4-20 mA: measurement * 22mA: overange Max. load impedance 700 Ohms 2 configurable dry relay outputs, max 1A / 30V
Options	HART Protocol (7th edition) 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

Electrical

Power supply	ower supply 24V DC, range (18 - 28V DC)	
Power consumption	Power consumption 2W normal (5W max)	
Connection	0.3 mm² (22 AWG) - 1.5 mm² (16 AWG)	

adjust backlight depending on luminosity

Environmental

Storage	-35°C to +55°C (-31°F to +131°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

Material	316L stainless steel
Weight	4 Kg (8Lbs)

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

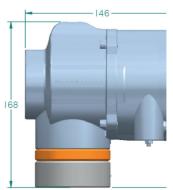
Accessories

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





Teledyne Gas & Flame Detection quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification.

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