## MultiTox **Flexible configuration Reduced** maintenance DG-TT7-S Solid-State (MOS) Gas Detector

The MultiTox DG-TT7-S intelligent solid-state (MOS) hydrogen sulphide (H<sub>2</sub>S) gas detector. The device has been designed for ease of operation and maintenance in hot and dry environments.



Local display

### Description

The DG-TT7-S is a solid-state metal oxide semiconductor (MOS) gas detector used mainly for the detection of hydrogen sulphide in arid locations having air present. The DG-TT7-S can also be configured for other gases, such as refrigerants (e.g. R22). The unit employs a robust sensing element that needs recalibration just once a year. In addition the device does not need a high gas concentration dose to reactive the active sensing material.

The intelligent, microprocessor driven unit is fully configurable using a wireless handheld terminal (TLU) or by using the hard wired HART option giving true flexibility to the installer. Elements such as relay operation and alarm levels are all set via the TLU, hazardous area approved handheld unit.

The unit may be interfaced directly with a wide range of panels, controllers and PLC's etc. The device offers HART Protocol 7th edition output as an option.

## Applications

- Refineries
- Drilling and Production Platforms
- Processing and storage plants
- Chemical plants



#### Features

	Recalibration just once a year	Reduced maintenance & service costs
	Non-consumptive technology	Long service life
	Resistant to high gas concentrations	Suitable for extreme conditions
	Daylight readable LED display integrated in the detector housing	Local status and alarm level indication
	Hand held maintenance terminal	Reduced service costs
	"No-touch" field cabling	Detector can be replace without disassembling the cable glands
	HART(R) output option available	Full configuration and diagnostics over non-

proprietary interface

**Benefits** 





# DG-TT7-S

## **Technical Data**

#### GENERAL

Technology Detects

Range

#### PERFORMANCE

Response time

Accuracy Sensor life T50 < 30 s T90 < 120 s +/- 10% of calibrated range Better than 5 years

others gas available on request

Solid-state Metal Oxide Semiconductor

Hydrogen Sulphide

0 - 50 ppm H<sub>2</sub>S 0 - 100 ppm H<sub>2</sub>S

#### **OUTPUT SIGNAL**

Standard

option HART(R) option option Local display

4-20mA, max. load impedance 700Ω (Std.) 2 x configurable Relays max 1A / 30V HART Protocol (7th edition) (pending) 0-22mA (User configurable) Lonworks (Syntel) 4 digit led display and backlight color status with automatic intensity adjustment

#### ELECTRICAL

Power supply Power consumption 5W nominal Connection

24V DC, range (18 - 28V DC) 0.14 mm<sup>2</sup> (28 AWG) - 1.5 mm<sup>2</sup> (16 AWG) Shielded cable recommended.

#### ENVIRONMENTAL Storage

-40°C to +70°C -40°C to +65°C Sunshade, max. temp. 85°C (185°F) 0 to 95% RH (non-condensing) Atmospheric pressure +/- 10% IP66 Complies with EN50270.

#### HOUSING

Operation Option

Humidity

Pressure

Ingress

RFI/EMI

Material Weight

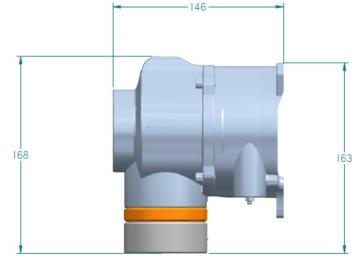
316 L stainless steel 4 Kg (8Lbs)

#### **APPROVALS**

ATEX Certificate number IECEx

(Ex) II 2 G Ex d IIC T6 Gb (-40°C to +65°C) LCIE 11 ATEX 3081 X Ex d IIC T6 Gb IECEx LCI 11.0060X





## ACCESSORIES

TLU600	Infrared remote control unit
AS008	Sun shade
AS005	Calibration cup
AS051	Calibration cup for breakable ampoules
AS011-2	Sample flow housing
AS019	Splash guard
CAL-K1C-31AE-1A1-00	Calibration kit 20ppm H2S
CAL-K1C-31AF-1A1-00	Calibration kit 50ppm H2S
CAL-A00-31AF-000-00	Box of 10 breakable gas ampoule
	50ppm H2S. For use with AS051 cup
AS047	Display protection

#### **OTHER PRODUCTS (STAINLESS STEEL RANGE)**

DGI-TT7	MultiTox, (EC Cell) Gas Detector
DF-TV6	MultiFlame, Flame Detector
DG-TX	MultiXplo, Flammable Gas Detector



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