MultiXplo

Flexible configuration
Reduced maintenance
Over-range LEL sensor protection

DG-TX7 Intelligent Flammable Gas Detector

The Simtronics MultiXplo DG-TX7 is an intelligent catalytic sensor based flammable gas detector used to detect a wide range of gases, including hydrogen (H_2) . The device has been designed for ease of installation, operation and maintenance in testing environments.



Description

The MultiXplo DG-TX7 employs a pair of Simtronics OXYCOL catalytic sensors in a compensated circuitry in order to provide reliable flammable gas detection in harsh environments, as long as oxygen is present. The intelligent microprocessor driven unit is fully configurable using a wireless handheld terminal (TLU) or optionally via HART giving true flexibility to the installer. Parameters such as relay operation and alarm levels are all set via the TLU; a hazardous area approved hand-held unit.

In addition, the sensor element is protected by the onboard electronics to prevent exposure to over-range LEL gas concentrations. This helps reduce on-going maintenance and service costs.

Users can select between 4-20 and 0-22mA depending on system requirements. The unit may be interfaced directly with a wide range of panels, controllers and PLC's etc.

Device status, including measured gas level is indicated on a colour coded 4 digit LED display.

Applications

- Refineries
- Offshore driling and production platforms
- Processing and storage plants
- Chemical plants



Features Benefits

Detects virtually all flammable gases	Detects Hydrogen, unlike IR detectors
Computer compensed proprietary catalytic elements	Excellent stability over a wide operating temperature range
Over-range LEL sensor protection	Reduced service and maintenance costs
Wireless, non intrusive testing by a single technician using TLU	Easy setup and maintenance
Integrated daylight readable backlit LED display	Device status visible from long distance
Hot swap field cabling	Detector (unpowered) can be changed in hazardous area without area declassification
HART ^(R) output option available	Full configuration and diagnostics over non-

proprietary interface







Technical Data

GENERAL

Technology Low temperature oxidation process, Oxycol

Flammable Gases Detects 0 to 100% LEL Range Calibration with calibration gas

PERFORMANCE

T90 < 15 s (Methane) Response time +/- 3% Full scale deflection Zero drift Accuracy +/- 5% Full scale deflection Repeatability +/- 1% Full scale deflection Sensor life Better than 5 years

OUTPUT SIGNAL

Standard 4-20mA, max. load impedance 700Ω (Std.)

2 x configurable Relays max 1A / 30V

option HART (R) HART Protocol (7th edition) 0-22mA (User configurable) option

option Lonworks (Syntel)

4 digit led display and backlight color status Local display

with automatic intensity adjustment

ELECTRICAL

24V DC, range (18 - 28V DC) Power supply

2W normal, 5W max (backlight at max) Power consumption 0.3 mm² (22 AWG) - 1.5 mm² (16 AWG) Connection

Shielded cable recommended

ENVIRONMENTAL

-40°C to +70°C (-40°F to 158°F) Storage -40°C to +60°C (-4°F to 140°F) Operation Option Sunshade, max. temp. 85°C (185°F)

Humidity 99% RH (non-condensing) Pressure Atmospheric pressure +/- 10%

Ingress

RFI/EMI Complies with EN50270

HOUSING

Material 316 L stainless steel

4Kg (8Lbs) Weight

APPROVALS

IECEx

ATEX

(-40°F to +149°F) LCIE 11 ATEX 3081 X Ex d IIC T6 Gb

Certificate number

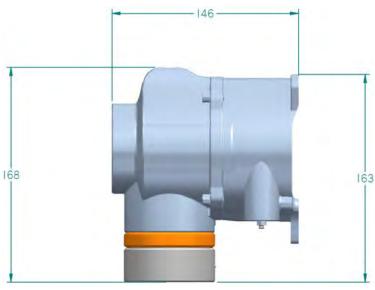
(II 2 G Ex d IIC T6 Gb (-40°C to +65°C)

IECEx LCI 11.0060X

CONFORMITIES

EN60079-29-1





ACCESSORIES

TLU600 Infrared remote control unit

AS056-250 Sun shade AS005 Calibration cup AS011-2 Sample flow housing AS019 Splash guard CAL-K1C-xxDF-1A1-00 Calibration kit AS047 Display protection

OTHER PRODUCTS (STAINLESS STEEL RANGE)

MultiTox, Toxic (EC Cell) Gas Detector DGI-TT7-E DG-TT7-S MultiTox, Solid-State (MOS) Gas Detector

DF-TV7 MultiFlame, Flame Detector



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