

MultiXplo

Flexible configuration
Reduced maintenance
Over-range LEL sensor protection

DM-TX6 Intelligent Flammable Gas Detector

The MultiXplo DM-TX6 intelligent catalytic sensor based flammable gas detector used to detect a wide range of gases, including hydrogen (H₂). The device has been designed for ease of installation, operation and maintenance in testing environments.

The DM-TX6 uses a computer matched pair of poison resistant pellistor beads to provide reliable flammable gas detection performance in harsh environments, provided oxygen is present.

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

The device offers a wide range of output options as standard and is suitable for use in SIL 2 applications. The unit may be interfaced directly with a wide range of panels, controllers and PLC's etc.

The DM-TX may be used in refineries, offshore drilling and production platforms, processing and storage plants as well as chemical plants.

Features

Detects virtually all flammable gases

Computer matched poison resistant catalytic sensors

Over-range LEL sensor protection

Wireless, non intrusive testing by as single technician

Hand held maintenance terminal

"No-touch" field cabling

Wide range of detector outputs

Benefits

Detects Hydrogen, unlike IR detectors

Excellent stability over a wide operating temperature range

Reduced service and maintenance costs

Reduced service costs

End to end loop testing

Detector can be replaced without disassembling the cable glands

Local LED alarm indicators, relays & 4-20mA output are available as standard



Wireless (IR)
Handheld Terminal

Technical Data

GENERAL

Technology	Low temperature oxidation process, Oxycol™
Detects	Flammable Gases
Range	0 to 100% LEL
Calibration	with calibration gas

PERFORMANCE

Response time	T90 < 10 s (Methane)
Zero drift	+/- 3% Full scale deflection
Accuracy	+/- 5% Full scale deflection
Repeatability	+/- 1% Full scale deflection
Sensor life	Better than 5 years
MTBF	73,000 hours

OUTPUT SIGNAL

Standard	4-20mA, max. load impedance 700Ω (Std.) [600Ω with optional LCD display] 2 x configurable Relays max 1A / 30V
option	0-22mA (Option for PLC's)
option	Lonworks (Syntel)

ELECTRICAL

Power supply	24V DC, range (18 - 32V DC)
Power consumption	55 mA normal
Connection	0.3 mm ² (22 AWG) - 1.5 mm ² (12 AWG) Shielded cable recommended.

ENVIRONMENTAL

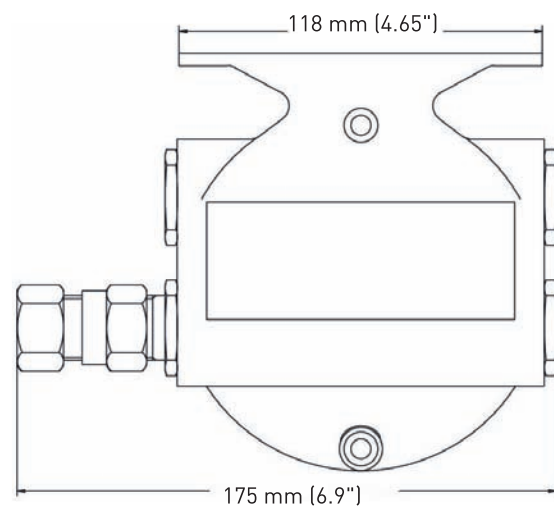
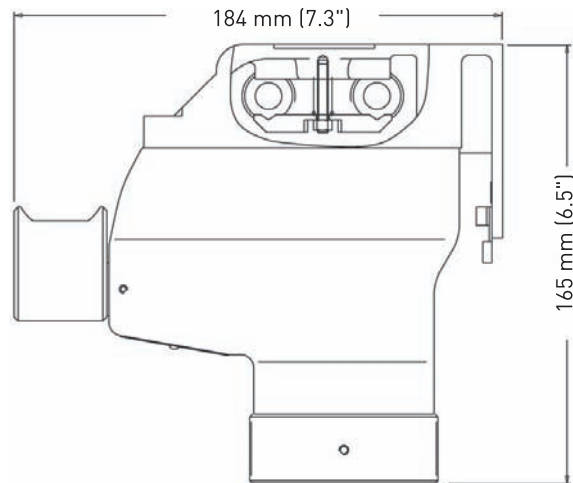
Storage	-40°C to +70°C
Operation	-20°C to +60°C
Humidity	0 to 95% RH (non-condensing)
Pressure	Atmospheric pressure +/- 10%
Ingress	IP66
RFI/EMI	Complies with EN50081-1, EN50081-2, EN50082-1 and EN50082-2.

HOUSING

Material	Epoxy coated aluminium (standard) 316 L stainless steel (option)
Weight	1.8 Kg (4 Lbs) Aluminium 6.5 kg (14.3 Lbs) Stainless steel

APPROVALS

ATEX	ATEX II 2 G Ex d II C T6
Certificate number	LCIE03ATEX6263
IECEX	IECEX LCI09.0018



ACCESSORIES

- TLU600 Wireless configuration tool
- Sun shade
- Calibration cup
- Sample flow housing
- Splash guard
- Calibration kit
- LCD Display