

TXGARD-IS+

Intrinsically Safe Toxic and Oxygen Gas Detector

Designed to operate safely in environments where flammable gases, vapours, or combustible dust may be present.



TXgard-IS+ is an Intrinsically Safe (I.S.) toxic and oxygen gas detector with local LCD display. Toxic gas detectors are ATEX certified for Zone 0, 1, or 2 hazardous areas and UL/cUL certified for Division 1 or 2. They offer a wide range of sensors for diverse applications.

With an extensive range of electrochemical sensors for oxygen and toxic gas detection, the TXgard IS+ provides multi-gas detection with an uncompromising approach to safety. Rugged and reliable, the TXgard IS+ is made from tough carbon loaded nylon, with ingress protection to IP65 as standard.

FEATURES

Non-intrusive calibration

Calibration can be performed locally without the need for hot work permits, minimising operational down-time. No opening of the detector is required for calibration, meaning there is no need to declassify the area for calibration.

Flexible output options

4-20mA current sink works with a wide selection of control panels.

Reliable detection across a wide range of gases

TXgard-IS+ is built from durable carbon-loaded nylon and supports a wide range of electrochemical sensors for oxygen and toxic gas detection. It is ATEX certified for Zone 0, 1, or 2 hazardous areas and UL/cUL certified for Division 1 or 2.

Low cost of ownership

TXgard-IS+ offers non-intrusive one-man calibration for easy maintenance, long-life sensors to minimise downtime, and simple parts replacement to reduce lifetime costs - delivering efficiency and reliability.

GASES & RANGES

GAS	RANGES AVAILABLE
Ammonia (NH ₃)	50, 100, 1000ppm
Carbon Monoxide (CO)	250, 500ppm
Chlorine (Cl ₂)	5, 10, 20ppm
Chlorine Dioxide (ClO ₂)	1ppm
Hydrogen (H ₂)	2000ppm, 50% LEL, 100% LEL
Hydrogen cyanide (HCN)	25ppm
Hydrogen fluoride (HF)	10ppm
Hydrogen sulphide (H ₂ S)	25, 50, 100, 200ppm
Nitrogen dioxide (NO ₂)	10ppm
Oxygen (O ₂)	25% Vol.
Ozone (O ₃)	1ppm
Phosgene (COCl ₂)	1ppm
Phosphine (PH ₃)	2ppm
Sulphur dioxide (SO ₂)	10, 20, 30ppm

SPECIFICATIONS

DEVICE SPECIFICATIONS	
ENCLOSURE MATERIAL	Junction box: Carbon loaded nylon Sensor housing: ABD Plastic
DIMENSIONS	160 x 123 x 92mm (6.3 x 4.8 x 4.5ins)
WEIGHT	0.7kg (1.5lbs)
INGRESS PROTECTION	IP65
CABLE ENTRY	1 x M20 or 1/2" NPT with adaptor
POWER	8-32Vdc, 4-20mA loop-powered
ELECTRICAL OUTPUT	2 wire 4-20mA sink
OPERATING TEMPERATURE	-20°C to +55°C (-4°F to 132°F)
HUMIDITY	15 to 90% RH non-condensing
DISPLAY	2-line, 16 character LCD
CALIBRATION METHOD	Via push-buttons
TERMINALS	Suitable for up to 2.5mm ² cable
SENSOR TYPE	Electrochemical
REPEATABILITY	+/- 2% FSD typically
ZERO DRIFT	+/- 2% FSD, 6 months typically
RESPONSE TIME	Contact Crowcon for a full list of sensor response times
PERFORMANCE	Tested in accordance with EN60079-29-1
APPROVALS	Ex II 1 G Ex ia IIC T4 (-40°C to +65°C) Exia IIC T4 Gb Tamb -20°C to +55°C UL Class I, groups A, B, C and D
STANDARDS	IEC 60079-0:2017 Ed.7.0; EN IEC 60079-0:2018; IEC 60079-1:2014 Ed.7.0; EN 60079-1:2014; IEC 60079-31:2013 Ed.2.0; EN 60079-31:2014
ZONES	Zone 0, 1 or 2 Division 1 or 2 (when connected via an isolation device)
EMC COMPLIANCE	EN 50270, FCC: CFR 47 Part 15, ICES-003

Disclaimer

Due to ongoing research and product improvement, specifications are subject to change without notice. While every effort has been made to ensure accuracy in this document, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This document is not intended to form the basis of a contract.

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