

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

# SPECIFICATIONS

DEVICE SPECIFICATIONS	
<b>ENCLOSURE MATERIAL</b>	Junction box: Carbon loaded nylon Sensor housing: ABD Plastic
<b>DIMENSIONS</b>	160 x 123 x 92mm (6.3 x 4.8 x 4.5ins)
<b>WEIGHT</b>	0.7kg (1.5lbs)
<b>INGRESS PROTECTION</b>	IP65
<b>CABLE ENTRY</b>	1 x M20 or 1/2" NPT with adaptor
<b>POWER</b>	8-32Vdc, 4-20mA loop-powered
<b>ELECTRICAL OUTPUT</b>	2 wire 4-20mA sink
<b>OPERATING TEMPERATURE</b>	-20°C to +55°C (-4°F to 132°F)
<b>HUMIDITY</b>	15 to 90% RH non-condensing
<b>DISPLAY</b>	2-line, 16 character LCD
<b>CALIBRATION METHOD</b>	Via push-buttons
<b>TERMINALS</b>	Suitable for up to 2.5mm <sup>2</sup> cable
<b>SENSOR TYPE</b>	Electrochemical
<b>REPEATABILITY</b>	+/- 2% FSD typically
<b>ZERO DRIFT</b>	+/- 2% FSD, 6 months typically
<b>RESPONSE TIME</b>	Contact Crowcon for a full list of sensor response times
<b>PERFORMANCE</b>	Tested in accordance with EN60079-29-1
<b>APPROVALS</b>	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
<b>STANDARDS</b>	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
<b>ZONES</b>	Zone 0, 1 or 2 Division 1 or 2 (when connected via an isolation device)
<b>EMC COMPLIANCE</b>	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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