

Xgard Bright

Addressable Fixed-Point Gas Detector with Display

Xgard Bright is a versatile platform offering flammable and toxic gas detection and oxygen monitoring, while providing ease of operation and reduced installation costs.

Lowering the cost of installation, the 4-wire addressable implementation drastically reduces cabling requirements. The large OLED display allows users to easily work with Xgard Bright during install, calibration and routine maintenance without the need to open the housing.



Gases and ranges

Gas	Sensor Technology	Ranges Available
Range of flammable gases	MPS	0-100% LEL
Hydrogen sulphide (H ₂ S)	Electrochemical	10, 20, 25, 50, 100, 200 ppm
Oxygen (O ₂)	Oxygen	0-25% vol
Carbon Monoxide (CO)	Electrochemical	0-25, 50, 100, 200, 250, 300, 1000, 2000 ppm
Methane (CH ₄)	Pellistor	0-100% LEL
Pentane (C ₅ H ₁₂)	Pellistor	0-100% LEL
Hydrogen (H ₂)	Pellistor	0-100% LEL
LPG	Pellistor	0-100% LEL
Carbon Dioxide (CO ₂)	Infra-Red	0-5% vol
VOC*	PID	0-1000 PPM
Methane (CH ₄)	Infra-Red	0-100% LEL
Propane (C ₃ H ₈)	Infra-Red	0-100% LEL
Ammonia (NH ₃)*	Electrochemical	0-50, 100 ppm
Chlorine (CL ₂)*	Electrochemical	0-5, 10 ppm
Ozone (O ₃)*	Electrochemical	0-1 ppm
Sulpur dioxide (SO ₂)*	Electrochemical	0-10 ppm
Butane (C ₄ H ₁₀)	Infra-Red	0-100% LEL
Pentane (C ₅ H ₁₂)	Infra-Red	0-100% LEL
LPG	Infra-Red	0-100% LEL

^{*} Safe Area Only



Reducing the time operators spend in potentially hazardous areas:

At Crowcon we recognise the challenges faced and processes required every time an operator enters a facility or site that has been classified as a hazardous area. Permits are needed, specific training and equipment are required and procedures have to be followed. This consumes resource, which ultimately increases the cost of operations.

Xgard Bright has been designed with this in mind, making routine calibration and maintenance operations quick and simple to reduce the time operators spend in hazardous areas:

Non-intrusive calibration

Zero and calibration functions (plus set-up, tests and adjustments) are performed via the display using the magnetic wand, without needing to open the housing reducing the need for a hot-work permit.

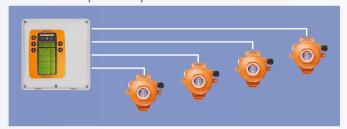
The brightly illuminated "organic light emitting diode" display clearly indicates the gas level and units as well as providing comprehensive menus for set-up and diagnosis. In low ambient light conditions, such as a dark room, the OLED display achieves a much higher contrast ratio than an LCD used on conventional gas detectors.

Lowering the cost of installation and maintenance

Addressable communications

Xgard Bright detectors can be connected on an addressable network using RS-485 Modbus. This option significantly reduces cable and installation costs, whilst increasing the flexibility and functionality of the wider system.

Traditional or point-to-point



Addressable or loop



Specification

Dimensions 156 x 166 x 109 x 109 mm (61 x 6.5 x 4.3 anch) Weight Aluminium alloy 1 kg (2.2 bs) Ingress protection 1P65 & 1P66 (with weatherproof cap) Cable entity 2 x M20 (stopping plug fitted to left-side entity) or supplied with 1/2" NPT adapters Power 10-30 Wide. 3W max Electrical output 4-20 m A current sink or source R5-485 Moxbus RTU HART (optional) Relays Alarm 1, Alarm 2, Fault SPST contacts reted 1A 30 Wide Sounder out 24 Vec (nominally), 250 mA maximum load Operating temperature Ago 15 4 Vec (nominally), 250 mA maximum load Operating temperature 10-30 Wide. 3W max Power 10-30 Wide. 3W max 24 Vec (nominally), 250 mA maximum load Operating temperature 10-20 Vec 5 vector operating temperatures vary widely Refer to the sensor module datashreet or contact Crowcon for specific sensor data. Humidity 10-20 Wide 14 Vector 15 RPS Power maximum Approval codes L11 25 Ext of III C 16 Gb Ext II 25 Ext of I	Enclosure material		
Weight Aluminium alloy 1kg (2.2lbs) Ingress protection 1P65 & IP66 (with weatherproof cap) Cable entry 2x M20 (stopping plug fitted to left-side entry) or supplied with ½" NPT adapters Power 10-30Vdc, 3W max Electrical output 4-20mA current sink or source RS-485 Moctbus RTU HART (optional) Relays Alarm 1, Alarm 2, Fault SPST contacts rated 1A 30Vdc Sounder out 24Vdc (nominally), 250mA maximum load Operating temperature Andro to +70°C (-40°F to 188°F) Note: sensor operating temperatures vary widely Refer to the sensor module datasfreet or contact Crowsoon for specific sensor data. Humidity 0 to 95% RH, non-condensing Repeatability +/- 2% FSD Zero drift +/- 2% FSD per year maximum Approval codes XIII 26 Ex db IIC T6 Gb Ex II 20 Ex tb IIIC T80°C Db Certificate numbers: TUV 16 ATEX 7908 X IECEX TUR 18:0039 X IECEX TUR 18:0039 X IECEX TUR 18:0079-1:2014 EN60079-1:2014 EN60079-1:2014 EN60079-1:2014 EN60079-1:2014 EN60079	LITCIOSUI E THATEHAI	ADC 12 aluminium alloy	
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Approval codes	Humidity	0 to 95% RH, non-condensing	
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EMC compliance EN50270:2015	Zones	Certified for use in Zone 1 and Zone 2 areas	
	EMC compliance	EN50270:2015	

Disclaime

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