

Fixed detectors

For flammable, toxic or oxygen gases

Xgard

Xgard Type 1: Intrinsically safe toxic and oxygen gas detector

Xgard Type 2: Flameproof toxic and oxygen gas detector

Xgard Type 3: Flameproof flammable gas detector

Xgard Type 4: Flameproof high temperature flammable gas detector
Xgard Type 5: Flameproof flammable gas detector with 4-20mA output
Xgard Type 6: Flameproof thermal conductivity type gas detector

Xsafe: Safe area flammable gas detector





The Xgard range of gas detectors has been specifically designed to meet your requirements. The dangers presented by toxic and flammable gases as well as oxygen deficiency vary with each application. Xgard offers three different sensor concepts so you can choose exactly what you need for your site.

Xgard is available in flameproof, intrinsically safe or safe area formats for use in all environments, whatever the classification.

Xgard, gas detectors you can trust.

Low cost of ownership

Xgard detectors are designed for easy installation and maintenance to keep costs down.

The three junction box options are all designed to make replacement of sensors and sinters extremely simple. Spare sensors simply plug-in.

Xgard Types 1 and 2 utilise oxygen sensors with a 2-year life-span, so sensor replacement costs are halved when compared to conventional oxygen detectors.

Many spare parts are common to all Xgard models, which keeps spares holding requirements to a minimum.

Flexible installation options

Xgard is designed for either wall or ceiling mounting without the need for additional brackets.

Xgard can accommodate M20, $\sqrt[4]{2}$ NPT or $\sqrt[3]{4}$ NPT cable glands to suit all site requirements.

High temperature models are available for hot environments (up to 150°C).

Accessories are available for duct mounting, and sampling applications as well as remote gassing for simple sensor checking.

Wide range of sensors

Xgard offers an extremely wide range of sensors for all applications.

Poison resistant pellistors, for all flammable detection needs including hydrocarbons, hydrogen, ammonia, jet fuel, leaded petrol and vapours containing halogens. Electrochemical sensors are used to detect a vast range of toxic gases and oxygen.

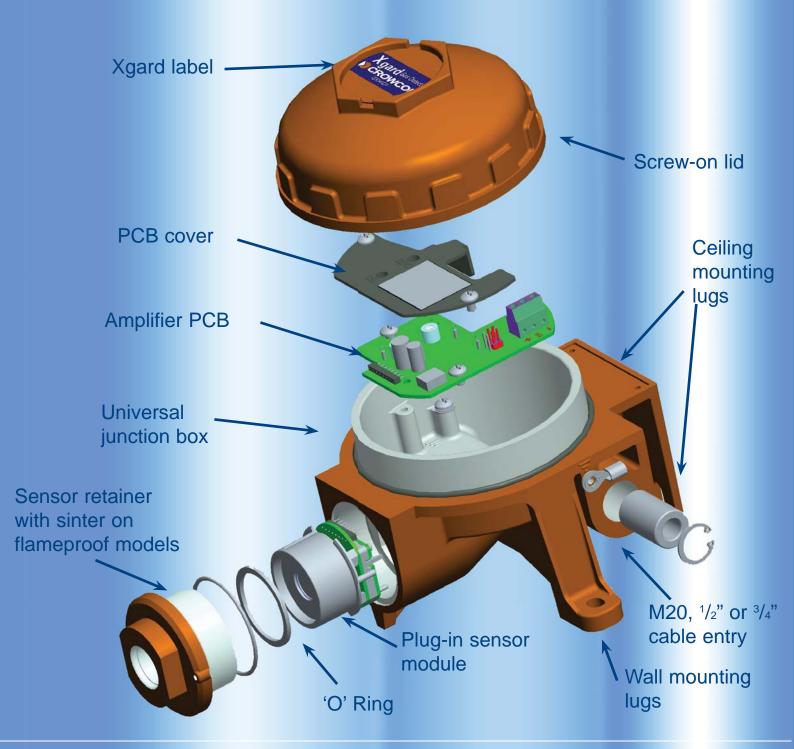
Thermal conductivity sensors are available to monitor volume concentrations of gases.

Rugged and reliable

Xgard is manufactured using a choice of three materials: glass reinforced nylon, highly durable aluminium with a tough polyester coating, or 316 stainless steel for ultimate corrosion resistance. All versions are designed to operate even in the harshest conditions.

Spray deflectors and weatherproof caps are available for use in areas subject to regular wash-downs, or offshore environments.

Xgard



Accessories (all accessories require an Accessory Adaptor to be fitted to the Xgard junction box)











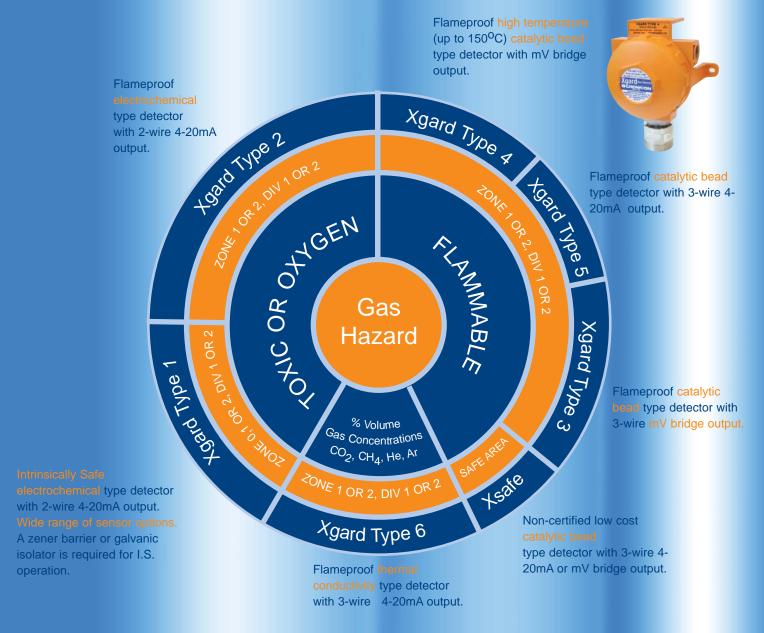




Detector Selector

The Xgard range offers a comprehensive selection of fixed point gas detectors that meet the diverse requirements for flammable and toxic gas detection and oxygen monitoring in industries throughout the world.

This diagram is designed to help you choose the correct Xgard detector to suit your needs.



Ordering Requirements

The following code is designed to help in the selection of the correct detector. The product reference number should be compiled by inserting the appropriate integer in each box.

Detector	Type No.	Code	Output	Junction Box	c Code	Cable Entry	Code	Certification	Code	Gas Type	Range
XGARD	Type 1 *1	1		Standard*1	Α	M20	M20	ATEX	AT	Abbreviated up	From selection
XSAFE	Type 2	2		Stainless St	eel*2 S	½"NPT	1/2	UL	UL	to 8 characters	shown on table
	Type 3	3				³ /₄"NPT	3/4				
	Type 4	4									
	Type 5	5									
	Type 6	6									
	XSAFE	XS	mV or mA								

^{1:} Xgard Type 1 ATEX certified detectors will be supplied in a glass-reinforced nylon enclosure as standard, or in a 316 stainless steel enclosure as an option. Xgard Type 1 UL certified detectors and all other Xgard Types will be supplied in aluminium as standard, or in a 316 stainless steel enclosure as an option.

^{*2:} The stainless steel option is not available for Xsafe.

Example product reference for an I.S. 0-25ppm H2S detector with ATEX certification and M20 cable entry in a standard (nylon) junction box:

LEL(*Not) LEL(*Not) UEL(*Not) Type 1 Type 2 Type 3,4,5 & Xsale Type 6	0	LTEL ()	OTEL (name)	Danner Aveilebler	Danasa Availables	Dan and Augilahla	Danner Aveilable	
Acetylene (C,H)	Gas type	LTEL(ppm)	STEL(ppm)	Ranges Available:	Ranges Available:	Ranges Available:	Ranges Available:	
Ammora (Nk) 2 3 3 0 0 0 0 0 0 0 0		LEL(%VOI)	UEL(%VOI)	туре т	Type 2	Type 3,4,5 & Asale	туре б	
Ammora (Nk) 2 3 3 0 0 0 0 0 0 0 0	Acetylene (C ₂ H ₂)	2.3 (2.4)	100			0-100% lel*		
15 (16) 33.0 (28) 500, 1000 ppm		V 7		50, 100, 250,				
Argon (AA)	3,						_	
Asterio (AAH.) O.5 O.1 O.2 S. Sperio Bulane (C.H.) O.5 O.5 O.5 O.5 O.5 O.5 O.5 O	Argon (Ar)	-	-				0-25% vv (in air) [†]	
Bromine (R)		0.05	-	1 ppm				
Butane (C,H.)			0.2					
Carbon Diouse COD. 15000		1.4 (1.8)	9.3 (9)			0-100% lel*	0-25% vv (in air)†	
Carbon Monoside Chilorine Cloxide CLO.) 300, 500, 1000 ppm 250, 300, 500, 1000 ppm 260, 1000 ppm 270, 2000 ppm 270, 45 wv 27	Carbon Dioxide	5000					0-50%, 100% vv (in air) [†]	
Chlorine (CL_)	(CO ₂)	(0.5%Vol)	(1.5%Vol)				_	
Chlorine (CL) - 0.5	Carbon Monoxide	30	200	50, 100, 150, 200, 250,	50, 100,			
Chlorine Dioxide (CiC.O) (CiC.	(CO)			300, 500, 1000 ppm	250, 300, 500, 1000 ppm		_	
Chlorine Dioxide (CiC.O) (CiC.							_	
Ciclog	Chlorine (CL ₂)	-	0.5	3,5,10,20,50,100 ppm				
Diborane (B,Hz)	Chlorine Dioxide	0.1	0.3	1 ppm				
Ethene (C,H ₂)	(CLO ₂)							
Ethylene CyLl, 2.3 (2.7) 36			-	1 ppm				
Ethylene Oxide (C,H,O)		1 1						
C-H_O	Ethylene (C ₂ H ₄)		36			0-100% lel*		
Fluorine (F ₃) 1		5	-	10, 50, 100 ppm	10, 50, 100 ppm			
Germane (GeH ₄) 0.2 0.6 2 ppm	<u> </u>							
Hellum (He)			1					
Hydrogen (H ₂)		0.2	0.6	2 ppm				
Hydrogen (H ₁) Hydrogen Chloride (HCL) Hydrogen Cyanide (HCL) Hydrogen Fluoride (HCL) Hydrogen Sulphide (H ₂) Hydrogen Sulphide (H ₃) Hydrogen Sulphide (H ₄) Hydrogen Cyal Hydrogen Cyal Hydrogen Cya	Helium (He)	-	-					
2%, 4% vv 2%, 4% vv 2%, 4% vv 0-20%,25%,30%, 50% vv (H, in N,) Hydrogen Chloride (HCL) Hydrogen Cyanide (HCL) Hydrogen Fluoride (HF) Hydrogen Sulphide (HF) Hydrogen Sulphide (H, in N) 10 5, 10, 20, 25, 50, 5, 10, 20, 25, 50 100, 200, 250, 300, 100, 200 ppm Hydrogen Sulphide (H, in N) LPG 2 10 0-100% lel 0-10%,25% 1000 ppm Hydrogen Dioxide (NC) 5" 15" 25, 50, 100 ppm Nitrogen Dioxide (NC) 5" 15" 25, 50, 100 ppm Nitrogen Dioxide (NC) NO ₂) Cozner (CO) - 0.2 1, ppm Coxygen (CO) - 0.2 1, ppm Petrol 1.3 6 0-100% lel 0-28% vv (in air) 1-100% lel 0-28% vv (in			== (00)	000 0000	and and nnm	0.40004.1.15		
Hydrogen Chloride 1	Hydrogen (H ₂)	4	77 (80)			0-100% lel*		
Hydrogen Chloride (HCL) Hydrogen Cyanide (HCL) Hydrogen Fluoride (HCN) Hydrogen Fluoride (HF) Hydrogen Sulphide (HG) Hydrogen Sulphide (H				270, 470 VV	270, 470 VV			
(HCL) (Hydrogen Cyanide (HCN) (Hydrogen Fluoride (HF) (HF) (Hydrogen Sulphide (H ₁ S) (H ₂ S) (H ₃ S) (H ₄ S) (H ₄ S) (H ₅ S) (H ₄ S) (H ₅ S) (H ₄ S) (H ₅ S) (H ₅ S) (H ₅ S) (H ₆ S) (H ₆ S) (H ₇ S) (H ₇ S) (H ₈ S)	Hydrogon Chlorido	1	5	5 10 25 ppm			(112 111 142)	
Pydrogen Cyanide (HCN)		1	3	5, 10, 25 ppili			_	
(HCN) (Hydrogen Flucide (HS) (Hydrogen Sulphide (H,S) 1.8 3 10 ppm 5 10 5, 10, 20, 25, 50, 5, 10, 20, 25, 50 100, 200, 250, 300, 100, 200 ppm 1000 ppm LPG 2 10 Methane (CH ₄) 4.4 (5) 17 (15) Nitric Oxide (NO) 5' 15" 25, 50, 100 ppm Nitrogen Dioxide (NO) Ozone (O ₃) Ozone (O ₃) Ozone (O ₃) Pentane (C ₅ H ₁₂) 1.4 (1.5) 800ppm 1800ppm Petrol 1.3 6 6 Petrol 1.3 0.2 1 ppm Petrol 1.3 6 6 Petrol 1.3 0.2 1 ppm Petrol 1.3 6 6 1 1 1 0.2 1 ppm Petrol 1.3 6 6 1 1 1 0.2 1 ppm Phosphine (PH ₃) 1.4 (1.5) Phosphine (PH ₃) 1.7 (2.2) 1.9 (1.9 (10)) Silane (SiH ₄) 0.5 1 1 1 ppm Sulphur Dioxide (SO ₂) 250 ppm Virry Chloride (NO) Sulphur Dioxide (SO ₂) 250 ppm Virry Chloride (NO) Virry Chloride (NO) Virry Chloride (NO) Virry Chloride (NO) Volatile Organics - 0 - 100 ppm* Virry Chloride (NO) Volatile Organics - 0 - 100 ppm* Virry Chloride (NO) Volatile Organics - 0 - 100 ppm* Virry Chlorides (NO) Volatile Organics - 0 - 100 ppm* Virry Chlorides (NO) Volatile Organics Virry Chlorides (NO) Volatile Organics Virry Chlorides (NO) Virr		_	10	25 30 nnm				
Hydrogen Fluoride (HF) Hydrogen Sulphide (H,S) By the Hydrogen Sulphide (H,S) LPG 2 10			10	20, 00 ppm			_	
(HF) Hydrogen Sulphide (H,S) Do 100, 200, 250, 300, 100,200 ppm LPG 2 10 Methane (CH ₄) 4.4 (5) 17 (15) Nitric Oxide (NO) Silon (NO ₃) Ozone (O ₃) - 0.2 Pentane (C ₃ H ₇) Pentane (C ₃ H ₇) Pentane (C ₃ H ₇) Pentol 1.3 6 Phosphine (PH ₃) 0.1 0.2 1 ppm Propane (C ₃ H ₇) Propane (C ₃ H ₇) Propane (C ₃ H ₇) 1.7 (2.2) 1.9 (10) 1.9 (1		1.8	3	10 ppm				
Hydrogen Sulphide (H,S)				. о рр			_	
100, 200, 250, 300, 100, 200 ppm		5	10	5, 10, 20, 25, 50,	5, 10, 20, 25, 50			
LPG 2 10 0-100% lel 0-100% wy (in air) 0-100% lel 0-25% wy (in air) 0-100% lel	(H ₂ S)						_	
LPG				1000 ppm			_	
Nitric Oxide (NO) S** 15** 25, 50, 100 ppm	LPG	2	10			0-100% lel		
Nitric Oxide (NO) 5** 15** 25, 50, 100 ppm Nitrogen Dioxide (NO ₂) Ozone (O ₃) - 0.2 1 ppm Oxygen (O ₂) 25% Vol Pentane (C ₂ H ₁₂) 1.4 (1.5) 7.8 (7.8) 600ppm 1800ppm Petrol 1.3 6 0 0-100% lel* Phospene (COCL ₂) 0.02 1 ppm Phosphine (PH ₃) 0.1 0.2 1 ppm Silane (SiH ₄) 0.5 1 1 1 ppm Sulphur Dioxide (SO ₂) 1 1 1 1 0, 20, 50, 100, (SO ₂) 250 ppm Volatile Organics - 0 - 100 ppm* ²	Methane (CH ₄)	4.4 (5)	17 (15)			0-100% lel	0-10%,25%	
Nitric Oxide (NO) 5" 15" 25, 50, 100 ppm Nitrogen Dioxide (NO ₂) Ozone (O ₃) - 0.2 1 ppm Oxygen (O ₂) 25% Vol 25% Vol Pentane (C ₃ H ₁₂) 1.4 (1.5) 7.8 (7.8) 600ppm 1800ppm Petrol 1.3 6 0-100% lel* Phospene (COCL ₂) 0.02 0.06 1 ppm Propane (C ₃ H ₃) 1.7 (2.2) 10.9 (10) Silane (SiH ₄) 0.5 1 1 ppm Sulphur Dioxide (SO ₂) 250 ppm Volatile Organics - 0 - 100 ppm*2							100% vv (in air)	
Nitrogen Dioxide (NO ₂)							0-100% vv (CH ₄ in CO ₂) [†]	
(NO ₂) Ozone (O ₃) Ozone (O ₂) Ozone (Ozone (Ozone) Ozone (Ozone) Ozon	Nitric Oxide (NO)	5*1	15*1					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Nitrogen Dioxide	1	1	5, 10, 30, 50, 100 ppm				
Oxygen (O2) - - 25% Vol 25% Vol Pentane (C8H12) 1.4 (1.5) 7.8 (7.8) 0-100% lel* 600ppm 1800ppm 0-100% lel* Petrol 1.3 6 Phosgene (COCL2) 0.06 1 ppm Phosphine (PH3) 0.1 0.2 1 ppm 0-100% lel 0-25% vv (in air) [†] Silane (SiH4) 0.5 1 1 ppm Sulphur Dioxide (SO2) 1 10, 20, 50, 100, 250 ppm Vinyl Chloride (SO2) 3.6 33 Volatile Organics - 0 - 100 ppm*2	(NO ₂)							
Pentane (C ₃ H ₁₂) 1.4 (1.5) 600ppm 1800ppm 1800ppm Petrol 1.3 6 0-100% lel* Phosgene (COCL ₂) 0.02 0.06 1 ppm Phosphine (PH ₃) 0.1 0.2 1 ppm Propane (C ₃ H ₈) 1.7 (2.2) 10.9 (10) Silane (SiH ₄) 0.5 1 1 ppm Sulphur Dioxide (SO ₂) Vinyl Chloride (SO ₂) Volatile Organics - 0-100 ppm* ² 0-100% lel* 0-25% vv (in air) [†] 0-100% lel* 0-25% vv (in air) [†] 0-100% lel*	Ozone (O ₃)	-	0.2					
Bode	Oxygen (O ₂)	-	-	25% Vol	25% Vol			
Petrol 1.3 6 0-100% lel* Phosgene (COCL ₂) 0.02 0.06 1 ppm Phosphine (PH ₃) 0.1 0.2 1 ppm Propane (C ₃ H ₈) 1.7 (2.2) 10.9 (10) Silane (SiH ₄) 0.5 1 1 ppm Sulphur Dioxide 1 1 1,0, 20, 50, 100, (SO ₂) 250 ppm Vinyl Chloride 3.6 33 0-100% lel* Volatile Organics - 0 - 100 ppm* ²	Pentane (C ₅ H ₁₂)					0-100% lel*		
Phosgene (COCL ₂) 0.02 0.06 1 ppm Phosphine (PH ₃) 0.1 0.2 1 ppm Propane (C ₃ H ₈) 1.7 (2.2) 10.9 (10) 0-100% lel 0-25% vv (in air) [†] Silane (SiH ₄) 0.5 1 1 ppm Sulphur Dioxide 1 1 10, 20, 50, 100, (SO ₂) 250 ppm Vinyl Chloride 3.6 33 0-100% lel* (VCM) (CH ₂ =CHCl) 3 - 0 - 100 ppm* ²	-					0.4000/ 1.11		
Phosphine (PH ₃) 0.1 0.2 1 ppm Propane (C ₃ H ₈) 1.7 (2.2) 10.9 (10) 0-100% lel 0-25% vv (in air) [†] Silane (SiH ₄) 0.5 1 1 ppm 1 1 ppm 0.5 1 ppm 0.5 1 ppm 0.5 0.5 1 ppm 0.5						0-100% lel*		
Propane (C ₃ H ₈) 1.7 (2.2) 10.9 (10) 0-100% lel 0-25% vv (in air) [†] Silane (SiH ₄) 0.5 1 1 ppm 1 10, 20, 50, 100, 250 ppm 1 1 10, 20, 50, 100, 250 ppm 1 1 1 10, 20, 50, 100, 250 ppm 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Silane (SiH ₄) 0.5 1 1 ppm Sulphur Dioxide 1 1 10, 20, 50, 100, 250 ppm Vinyl Chloride 3.6 33 0-100% (CH ₂ =CHCl) 3 - 0 - 100 ppm* ²				ı ppm		0.4000/ [a]	0.250/ \n. /in ain\†	
Sulphur Dioxide 1 1 10, 20, 50, 100, 250 ppm Vinyl Chloride 3.6 33 0-100% lel* (VCM) (CH2=CHCI) 3 - Volatile Organics - 0 - 100 ppm*2			10.9 (10)	1 nnm		0-100% lei	U-25% VV (III alr) I	
(SO2) 250 ppm Vinyl Chloride 3.6 (VCM) (CH2=CHCI) 3 - 0 - 100 ppm*2			1					
Vinyl Chloride 3.6 33 0-100% lel* (VCM) (CH ₂ =CHCl) 3 - Volatile Organics - 0 - 100 ppm*2								
(VCM) (CH ₂ =CHCl) 3 - 0 - 100 ppm*2 - - 0 - 100 ppm*2 -		3.6	33	230 ppm		0-100% lal*		
Volatile Organics 0 - 100 ppm*2	=		-			0-10070 ICI		
		-	-	0 - 100 ppm*2				
				о тоо ррш				
	()							
				1111111				

Notes: Other sensors and ranges may be available, please contact Crowcon.

*Ranges not available for Xsafe or Xgard Type 4

†Contact Crowcon for availability

LTEL & STEL figures are derived from the UK HSE document: EH40 Oct 07. Alternative thresholds may apply in countries outside of the UK

LEL figures derived from EN61779-1: 2000

*1 Current limits advised in the UK

*2 Nominal 0-100ppm range with Carbon Monoxide (CO). Contact Crowcon for a full list of gases that can be detected using this sensor

Xgard Specifications



Kgard Model	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Xsafe
unction box	ATEX Certified: Glass-	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
naterial	reinforced nylon or	or 316 Stainless					
	316 S/S UL Certified:	Steel	Steel	Steel	Steel	Steel	
	Aluminium or 316 S/S	450 400	150 100	105 100	450 400	450 400	450 460
imensions	156 x 166 x	156 x 166 x	156 x 166 x	195 x 166 x	156 x 166 x	156 x 166 x	156 x 166 x
	111mm (6.1 x 6.5	111mm (6.1 x 6.5	111mm (6.1 x 6.5	111mm (7.6 x 6.5	111mm (6.1 x 6.5	111mm (6.1 x 6.5	111mm (6.1 x 6.5
	x 4.3 inches)	x 4.3 inches)	x 4.3 inches)	x 4.3 inches)	x 4.3 inches)	x 4.3 inches)	x 4.3 inches)
Veight	• • • • • • • • • • • • • • • • • • • •	Alloy 1Kg (2.2 lbs)	Alloy 1Kg (2.2 lbs)	, , ,	Alloy 1Kg (2.2 lbs)	Alloy 1Kg (2.2 lbs)	1Kg (2.2 lbs)
	Alloy 1Kg (2.2 lbs)		316 S/S: 3.1kg (6.8 lbs)				
	316 S/S: 3.1kg (6.8 lbs)						
ngress	IP65, IP66 with	IP65, IP66 with	IP65, IP66 with	IP54	IP65, IP66 with	IP65, IP66 with	IP65, IP66 with
rotection	weatherproof cap	weatherproof cap	weatherproof cap		weatherproof cap	weatherproof cap	weatherproof cap
Cable entries	1 x M20 or	1 x M20,	1 x M20, or				
	1/2" NPT			1/2" NPT or 3/4" *NPT		1/2" NPT or 3/4" *NPT	1/2" NPT
	on right-side	on right-side	on right-side	on right-side	on right-side	on right-side	on right-side
erminations	0.5 to 2.5mm ²	0.5 to 2.5mm ²	0.5 to 2.5mm ²	0.5 to 2.5mm ²	0.5 to 2.5mm ²	0.5 to 2.5mm ²	0.5 to 2.5mm ²
	(20 to 13awg)	(20 to 13awg)	(20 to 13awg)	(20 to 13awg)	(20 to 13awg)	(20 to 13awg)	(20 to 13awg)
ensor type	Electrochemical	Electrochemical	Catalytic bead	316 s/s	Catalytic bead	Thermal	Catalytic bead
				sensor housing		conductivity	
				with catalytic			
				beads			
perating	-20 to +50°C	-20 to +50°C	-40 to +80°C	-20 to +150°C	-40 to +55°C	+10 to +55°C	-40 to +80°C
emperature	(-4 to 122°F)	(-4 to 122°F)	(-40 to 176°F)	(-4 to 302°F)	(-40 to 131°F)	(50 to 131°F)	(-40 to 176°F)
	(typical)	(typical)					(mV version)
	(to +55°C	(to +55°C					-40 to +55°C
	intermittent)	intermittent)					(-40 to 131°F)
							(mA version)
umidity	0-90% RH	0-90% RH	0-99% RH	0-99% RH	0-99% RH	0-90% RH	0-99% RH
, and the second	non-condensing	non-condensing	non-condensing	non-condensing	non-condensing	non-condensing	non-condensing
epeatability	<2% FSD (Typ.)	<2% FSD (Typ.)	<2% FSD (Typ.)	<2% FSD (Typ.)	<2% FSD (Typ.)	<2% FSD (Typ.)	<2% FSD (Typ.)
ero drift	<2% FSD / month	<2% FSD / month	<2% FSD / month	<2% FSD / month	<2% FSD / month	<2% FSD / month	<2% FSD / mont
	(Typ.)	(Typ.)	(Typ.)	(Typ.)	(Typ.)	(Typ.)	(Typ.)
esponse time	T90 <10s Oxygen	T90 <10s Oxygen	T90 <15s (Typ)				
	T90 <30s to 120s	T90 <30s to 120s	()1 /	()()	()1 /	()1 /	717
	Toxic (sensor dependant)	Toxic (sensor dependant)					
perating	8 – 30V dc	8 – 30V dc	2.0V dc +/- 0.1V	2.0V dc +/- 0.1V	10 – 30V dc	10 – 30V dc	10 – 30V dc
oltage	0 00. 00	0 001 00	(Typ)	(Typ)			(mA version)
onago			(1)P)	(1)P)			2.0V dc
							(mV version)
ower	24mA max.	24mA max.	300mA (Typical)	300mA (Typical)	50mA @ 24V	50mA @ 24V	mA version:
equirements	24mA max.	ZHIIA IIIAX.	Joonna (Typical)	Joonna (Typical)	dc 1.2W	dc 1.2W	50mA @ 24V
quirements					UC 1.2VV	uc 1.2vv	dc 1.2W
							mV version:
loctrical	2 wiro 4 20m 1	2 wiro 4 20m 1	2 wire m\/ bridge	2 wire m\/ bridge	2 wiro 4 20m 4	2 wiro 4 20m 4	300mA (Typ.)
Electrical	2-wire 4-20mA	2-wire 4-20mA	3-wire mV bridge	3-wire mV bridge	3-wire 4-20mA	3-wire 4-20mA	mA version:
utput	(current sink)	(current sink)	Typical signal	Typical signal	(current sink or	(current sink or	3-wire 4-20mA
			12-15mV / %lel	>10mV / %lel	source)	source)	(current sink or
			CH4	CH4			source)
							mV version:
							3-wire mV bridge
							Typical signal
							12-15mV / %lel
							CH4
pprovals	ATEX: (Ex) II 1 G	ATEX:⟨x⟩ II 2 GD	ATEX: (Ex) II 2 GD	ATEX: (Ex) II 2 G	ATEX: (Ex) II 2 GD	ATEX: (Ex) II 2 GD	Not certified
	Exia IIC T4	Exd IIC T6	Exd IIC T4	Exd IIC T3	Exd IIC T6	Exd IIC T6	for use in a
	(Tamb –40 to	(Tamb –40 to	(Tamb -40 to	(Tamb –20 to	(Tamb –40 to	(Tamb –40 to	hazardous
	+55°C)	+50°C)	+80°C)	+150°C)	+50°C)	+50°C)	environment.
	UL/cUL	UL: Class 1, Div. 1	Exd IIC T6		Exd IIC T4	Exd IIC T4	
	Groups A,B,C,D	Groups B,C,D	Tamb (-40 to +50°C)		(Tamb -40 to	(Tamb -40 to +80°C)	
	IECEx	IECEx	UL: Class 1, Div. 1		+80°C)	UL: Class 1, Div. 1	
	MED Marine (96/	MED Marine (96/	Groups B,C,D		UL: Class 1, Div. 1	Groups B,C,D	
	98/EC) Oxygen	98/EC) Oxygen	IECEx		Groups B,C,D	IECEx	
	· · · · · · · · · · · · · · · · · · ·	, , ,			IECEx		
	Only	Only					
MC	Only EN 50270	EN 50270	EN 50270	EN 50270	EN 50270	EN 50270	EN 50270



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UK Office Crowcon Detection Instruments Ltd 2 Blacklands Way Abingdon Business Park Abingdon Oxfordshire OX14 1DY United Kingdom Tel: +44 (0) 1235 557700 Fax: +44 (0) 1235 557749 Email: crowcon@crowcon.com Web Site: www.crowcon.com USA Office Crowcon Detection Instruments Ltd 21 Kenton Lands Road Erlanger Kentucky 41018-1845 USA

Tel: +1 859 957 1039 or 1-800-5-CROWCON Fax: +1 859 957 1044 Email: salesusa@crowcon.com Rotterdam Office Crowcon Detection Instruments Ltd Vlambloem 129 3068JG, Rotterdam Netherlands Tel: +31 10 421 1232 Fax: +31 10 421 0542 Email: eu@crowcon.com Web Site: www.crowcon.com

boxes

Singapore Office Crowcon Detection Instruments Ltd Block 194 Pandan Loop #06-20 Pantech Industrial Complex Singapore 128383 Tel: +65 6745 2936 Fax: +65 6745 0467 Email: sales@crowcon.com.sg Web Site: www.crowcon.com