



## Sensepoint XCD SPECIFICATIONS

### Flammable, toxic and oxygen gas detector for industrial applications

<b>Use</b>	3 wire, 4-20mA and RS485 MODBUS output fixed point detector with in-built alarm and fault relays for the protection of personnel and plant from flammable, toxic and Oxygen hazards. Incorporates a transmitter with local display and fully configurable via non-intrusive magnetic switch interface.											
<b>Electrical</b>												
<b>Input Voltage Range</b>	12 to 32VDC (24VDC nominal)											
<b>Max Power Consumption</b>	Maximum power consumption is dependent on the type of gas sensor being used. Electrochemical cells = 3.7W, IR = 3.7W and catalytic = 4.9W. Maximum inrush current = 800mA at 24VDC											
<b>Current Output Relays</b>	Sink or source 3 x 5A@250VAC. Selectable normally open or normally closed (switch) and energized/de-energised (programmable) Alarm relays default normally open/de-energized. Fault relay default normally open/energized											
<b>Communication</b>	RS485, MODBUS RTU											
<b>Construction</b>												
<b>Material</b>	Housing: Epoxy painted aluminium alloy ADC12 or 316 stainless steel Sensor: 316 stainless steel											
<b>Weight (approx)</b>	Aluminium Alloy LM25: 4.4lbs 316 Stainless Steel: 11 lbs											
<b>Mounting</b>	Integral mounting plate with 4 x mounting holes suitable for M8 bolts. Optional pipe mounting kit for horizontal or vertical pipe Ø1.5 to 3" (2" nominal)											
<b>Cable Entries</b>	UL\cUL versions: 2 x ¾"NPT conduit entries. Suitable blanking plug supplied for use if only 1 entry used. Seal to maintain IP rating; ATEX/IECEx versions: 2 x M20 cable entries											
<b>Environmental</b>												
<b>IP Rating</b>	IP66 in accordance with EN60529:1992											
<b>Certified Temperature Range</b>	-40°F to +149°F (-40°C to +65°C)											
<b>Detectable Gases and XCD Sensor Performance</b>												
Gas	User Selectable Full Scale Range	Default Range	Steps	User Selectable Cal Gas Range	Default Cal Point	Response Time (T90) Secs	Accuracy	Operating Temperature		Default Alarm Points		
								Min	Max	A1	A2	
<b>Electrochemical Sensors</b>												
Oxygen	25.0%Vol. only	25.0%Vol.	n/a	20.9%Vol. (Fixed)	20.9%Vol.	<30	<±0.5%Vol.	-20°C / -4°F	55°C / 131°F	19.5%Vol. ▼	23.5%Vol. ▲	
Hydrogen Sulfide*	10.0 to 100.0ppm	50.0ppm	0.1ppm		25ppm	<50	<±1ppm	-20°C / -4°F	55°C / 131°F	10ppm ▲	20ppm ▲	
Carbon Monoxide**	100 to 1,000ppm	300ppm	100ppm		100ppm	<30	<±6ppm	-20°C / -4°F	55°C / 131°F	30ppm ▲	100ppm ▲	
Hydrogen	1,000ppm only	1,000ppm	n/a		500ppm	<65	<±25ppm	-20°C / -4°F	55°C / 131°F	200ppm ▲	400ppm ▲	
Nitrogen Dioxide***	10.0 to 50.0ppm	10.0ppm	5.0ppm		5.0ppm	<40	<±3ppm	-20°C / -4°F	55°C / 131°F	5.0ppm ▲	10.0ppm ▲	
* Lowest Alarm Limit = 1ppm; Lowest Detection Limit = .5ppm ** Lowest Alarm Limit = 15 ppm; Lowest Detection Limit = 10ppm *** Lowest Alarm Limit = 0.6 ppm; Lowest Detection Limit = 0.3ppm				30 to 70% of selected full scale range								
<b>Catalytic Bead Sensors</b>												
Flammable 1 to 8	20.0 to 100.0%LEL	100%LEL	10%LEL		50%LEL	<25	<±1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL ▲	40%LEL ▲	
<b>Infrared Sensors</b>												
Methane	20.0 to 100.0%LEL	100%LEL	10%LEL		50%LEL	<30	<±1.5%LEL	-20°C / -4°F	50°C / 122°F	20%LEL ▲	40%LEL ▲	
Propane	20 to 100%LEL	100%LEL	10%LEL	50%LEL	<30	<±1%LEL	-20°C / -4°F	50°C / 122°F	20%LEL ▲	40%LEL ▲		
Carbon Dioxide	2%Vol. only	2%Vol.	n/a	1%Vol.	<30	<±0.04%Vol.	-20°C / -4°F	50°C / 122°F	0.4%Vol. ▲	0.8%Vol. ▲		
<b>NOTE:</b> For Cat Bead and Infrared sensors, Lowest Detectable Limit is 5% LEL and Lowest Alarm Level is 10% LEL. ▲ - Rising Alarm ▼ - Falling Alarm												
<b>Certification</b>												
<b>US, Latin America, Canada</b>	UL/c-UL - Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II, Division 1, Groups E, F & G, Class II, Division 2, Groups F & G. -40°C to +65°C											
<b>European International</b>	ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66 IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66											
<b>EMC</b>	CE: EN50270:2006 EN6100-6-4:2007											
<b>Performance</b>	UL508; CSA 22.2 No. 152 (flammable gasses, excludes infrared sensors); ATEX, IEC/EN60079-29-1:2007, EN45544, EN50104, EN50271; China: PA Pattern Measurement (for transmitter and toxic gas sensors) "CCCC" Shenyang for Flammable (fire dept approval)											

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