



## Sensepoint XCD SPECIFICATIONS

**Combustible, Toxic and Oxygen gas detector for industrial applications**

General Specifications	
<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 combustible, toxic and Oxygen hazards. Incorporates a transmitter with local display and is fully configurable via non-intrusive magnetic switch interface.
Electrical	
<b>Input Voltage Range</b>	16 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</b>	Sink or source
<b>Relays</b>	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>	4-20mA, RS485 MODBUS RTU
Construction	
<b>Material</b>	<b>Housing:</b> Epoxy painted aluminium alloy LM25 or Stainless Steel; <b>Sensor:</b> 316 stainless steel
<b>Weight (approx)</b>	Aluminium Alloy LM25: 4.4lbs; Stainless Steel: 8.8lbs
<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
Environmental	
<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)
Certification	
<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</b> ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66 <b>International</b> 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; cCSAus 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) "CCCF" Shenyang for Flammable (fire dept approval)

Detectable Gases and XCD Sensor Performance											
Gas	User Selectable Full Scale Range	Default Range	Range Increments	User Selectable Cal Gas Range	Response Time (T <sub>90</sub> ) Secs	Accuracy	Operating Temperature Min Max		Class I, Division 1	Class I, Division 2	Remote Capability
<b>Combustible Sensors</b>											
Flammable 1 to 8	20 to 100%LEL	100%LEL	10%LEL	30-70% of selected range	<25	±1.5%LEL	-20°C / -4°F	55°C / 131°F	✓		
Methane	20 to 100%LEL	100%LEL	10%LEL	30-70% of selected range	<30	±1.5%LEL	-20°C / -4°F	50°C / 122°F	✓		
Propane	20 to 100%LEL	100%LEL	10%LEL	30-70% of selected range	<30	±1.5%LEL	-20°C / -4°F	50°C / 122°F	✓		
Carbon Dioxide	2%Vol. only	2%Vol.	N/A	30-70% of selected range	1%Vol.	±0.04%Vol.	-20°C / -4°F	50°C / 122°F	✓		
<b>Toxic Sensors</b>											
Hydrogen Sulfide	10 to 100ppm	50ppm	0.1ppm	30-70%Vol. (Fixed)	<50	±1ppm	-20°C / -4°F	55°C / 131°F	✓		
	50ppm	50ppm	N/A	20ppm	<40	±1ppm	-20°C / -4°F	50°C / 122°F		✓	✓
Carbon Monoxide	100 to 1,000ppm	300ppm	100ppm	30-70% of selected range	<30	±6ppm	-20°C / -4°F	55°C / 131°F	✓		
	200ppm	200ppm	N/A	100ppm	<30	±4ppm	-20°C / -4°F	50°C / 122°F		✓	✓
Hydrogen	1,000ppm	1,000ppm	N/A	30-70% of selected range	<65	±25ppm	-20°C / -4°F	55°C / 131°F	✓		
	1,000ppm	1,000ppm	N/A	500ppm	<45	±20ppm	-5°C / 23°F	40°C / 104°F		✓	✓
Nitrogen Dioxide	10 to 50ppm	10ppm	5.0ppm	30-70% of selected range	<40	±3ppm	-20°C / -4°F	55°C / 131°F	✓		
	10ppm	10ppm	N/A	5ppm	<30	±2ppm	-15°C / 5°F	40°C / 104°F		✓	✓
Ammonia	50ppm	50ppm	N/A	25ppm	<65	±1ppm	-20°C / -4°F	40°C / 104°F		✓	✓
Chlorine	5ppm	5ppm	N/A	3ppm	<225	±0.1ppm	-20°C / -4°F	50°C / 122°F		✓	✓
Sulphur Dioxide	15ppm	15ppm	N/A	10ppm	<90	±0.3ppm	-15°C / 5°F	40°C / 104°F		✓	✓
Nitric Oxide	100ppm	100ppm	N/A	50ppm	<30	±2ppm	-5°C / 23°F	40°C / 104°F		✓	✓
<b>Oxygen Sensors</b>											
Oxygen	25%Vol.	25%Vol.	N/A	20.9%Vol. (Fixed)	<30	±0.5%Vol.	-20°C / -4°F	55°C / 131°F	✓		
	25% V/V	25% V/V	N/A	19% V/V	<10	±0.5%Vol.	-15°C / 5°F	40°C / 104°F		✓	✓

# Honeywell

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