Honeywell

Sensepoint XCD RTD

Remote toxic and oxygen gas detector for industrial applications

Use	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 toxic and oxygen hazards. Incorporating a transmitter with local display and optional remote mounted sensor, fully configurable via non-intrusive magnetic switch interface with a wide range integral and remote sensors available.
Electrical	
Input Voltage Range	16 to 32VDC (24VDC nominal)
Max Power Consumption	Maximum power consumption is dependent on the type of gas sensor being used. Electrochemical cells = 3.7W Maximum inrush current = 800mA at 24VDC
Current Output **Relays**	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
Communication	RS485
Construction	
Material	Housing**:** Epoxy painted aluminium alloy LM25 or 316 stainless steel Sensor**:** Polyphenylene sulfide (PPS) (see Sensepoint specifications)
Weight (approx)	Aluminium Alloy LM25: 4.4lbs 316 Stainless Steel**:** 11lbs
Mounting	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)
Cable Entries	2 x ¾"NPT conduit entries. Suitable blanking plug supplied for use if only 1 entry used. Seal to maintain IP rating
Environmental	
IP Rating	IP67 in accordance with EN60529:1992
Certified Temperature Range	40ºF to +149ºF (-40ºC to +65ºC)

Detectable Gases and XCD RTD Sensor Performance

Gas	Displayed Name	Range	Lower Alarm	Lower Alarm Type	Higher Alarm	Higher Alarm Type	Lowest Alarm Level
Hydrogen Sulphide	H_2S	50.0 ppm	10.0ppm	Rising	20.0ppm	Rising	5.0ppm
Carbon Monoxide	CO	200 ppm	40ppm	Rising	80ppm	Rising	20ppm
Chlorine	Cl_2	5.0 ppm	0.5 ppm	Rising	2.0ppm	Rising	5.0ppm
Ammonia	NH_3	50.0ppm	20.0ppm	Rising	30.0ppm	Rising	5.0ppm
Hydrogen	H_2	1000ppm	200ppm	Rising	400ppm	Rising	100ppm
Nitrogen Monoxide	NO	100 ppm	20ppm	Rising	40ppm	Rising	10ppm
Sulphur Dioxide	SO_2	15.0ppm	2.0ppm	Rising	6.0ppm	Rising	1.5ppm
Nitrogen Dioxide	NO_2	10.0ppm	2.0ppm	Rising	4.0ppm	Rising	1.0ppm
Oxygen	O_2	25.0% V/V	19.5%Vol	Falling	23.5%Vol	Rising	10.0%Vol

Certification	
US, Latin America, Canada	**cCSAus** Ex d IIB+H2; Class I, Zone 1, AEx d IIB+H2; Class I, Division 2, Groups B, C & D Class I, Zone 1, AEx d ia IIC Gb; Class I, Div. 2, Groups B, C and D Inmetro Ex d IIC T6 Gb, Ex tb IIIC T85ºC Db, IP66, -40ºC < ta < +65ºC
EMC	CE: EN50270:2006 EN6100-6-4:2007, Ex d IIC T6 Gb, Ex tb IIIC T85ºC Db, IP66, -40ºC < ta < +65º C
Standards	CAN/CSA-C22.2 No. 0-M91, CAN/CSA-C22.2 No. 60079-0:07, CAN/CSA-E60079-11:02, CAN/CSA-C22.2 No. 60079-1:07, ANSI/UL 60079-11:09, ANSI/UL 60079-1:09, C22.2 No. 142-M1987, C22.2 No. 213-M1987, UL 508 17th Ed., ANSI/ISA -12.12.01-2010 ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, IEC 60079-31:2008 e ABNTNBR IEC 60529:2009.