



Sensepoint XCD

Flammable, 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 flammable, toxic and Oxygen hazards. Incorporating a transmitter with local display and fully configurable via non-intrusive magnetic switch interface. | | | | | | | | | | |
|--|---|---------------|---------|--|-------------------|--------------------------|--------------|---------------------------|---------------------------|-------------------------|-------------------------|
| 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, IR = 3.7W and catalytic = 4.9W. 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, MODBUS RTU | | | | | | | | | | |
| Construction | | | | | | | | | | | |
| Material | Housing: Epoxy painted aluminium alloy ADC12 or 316 stainless steel Sensor: 316 stainless steel | | | | | | | | | | |
| 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 | 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 | | | | | | | | | | | |
| IP Rating | IP66 in accordance with EN60529:1992 | | | | | | | | | | |
| Certified Temperature Range | 40°F to +149°F (-40°C to +65°C) | | | | | | | | | | |
| Detectable Gases and XCD Sensor Performance | | | | | | | | | | | |
| Gas | User Selectable Full Scale Range | Default Range | Steps | User Selectable Cal Gas Range | Default Cal Point | Response Time (T90) Secs | Accuracy | Operating Temperature Min | Operating Temperature Max | Default Alarm Points A1 | Default Alarm Points A2 |
| Electrochemical Sensors | | | | | | | | | | | |
| 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 ▲ |
| Catalytic Bead Sensors | | | | 30 to 70% of selected full scale range | 50%LEL | <25 | <±1.5%LEL | -20°C / -4°F | 55°C / 131°F | 20%LEL ▲ | 40%LEL ▲ |
| Infrared Sensors | | | | | 50%LEL | <30 | <±1.5%LEL | -20°C / -4°F | 50°C / 122°F | 20%LEL ▲ | 40%LEL ▲ |
| Methane | 20.0 to 100.0%LEL | 100%LEL | 10%LEL | | 50%Vol. | <30 | <±1%Vol. | -20°C / -4°F | 50°C / 122°F | 20%Vol. ▲ | 40%Vol. ▲ |
| Methane* | 20 to 100%Vol. | 100%Vol. | 10%Vol. | 1%Vol. | <30 | <±0.04%Vol. | -20°C / -4°F | 50°C / 122°F | 0.4%Vol. ▲ | 0.8%Vol. ▲ | |
| Carbon Dioxide | 2%Vol. only | 2%Vol. | n/a | | | | | | | | |
| ▲ - Rising Alarm ▼ - Falling Alarm | | | | | | | | | | | |
| Certification | | | | | | | | | | | |
| US, Latin America, Canada | 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 | | | | | | | | | | |
| European | ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66 | | | | | | | | | | |
| International | IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66 | | | | | | | | | | |
| EMC | CE: EN50270:2006 EN6100-6-4:2007 | | | | | | | | | | |
| Performance | 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) "CCCF" Shenyang for Flammable (fire dept approval) | | | | | | | | | | |

Please Note:

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Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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