



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:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

www.norrscope.com