Sensepoint XCD SPECIFICATIONS

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. Incorporates a transmitter with local display and fully configurable via non-intrusive magnetic switch interface.

Electrical

Input Voltage Range
12 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
Sink or source

Relays
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
-40ºF to +149ºF (-40ºC to +65ºC)

Detectable Gases and XCD Sensor Performance

<table>
<thead>
<tr>
<th>Gas</th>
<th>User Selectable Full Scale Range</th>
<th>Default Range</th>
<th>Steps</th>
<th>User Selectable Cal Gas Range</th>
<th>Default Cal Point</th>
<th>Response Time (T90) Secs</th>
<th>Accuracy</th>
<th>Operating Temperature Min</th>
<th>Max</th>
<th>Default Alarm Points A1</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrochemical Sensors</td>
<td>Oxygen 25.0%Vol. only</td>
<td>25.0%Vol.</td>
<td>n/a</td>
<td>20.9%Vol. (Fixed)</td>
<td>20.9%Vol.</td>
<td>&lt;30</td>
<td>&lt;±0.5%Vol.</td>
<td>-20°C/-4°F</td>
<td>55°C/131°F</td>
<td>19.5%Vol. ▼</td>
<td>23.5%Vol. ▲</td>
</tr>
<tr>
<td></td>
<td>Hydrogen Sulfide*</td>
<td>10.0 to 100.0ppm</td>
<td>50.0ppm</td>
<td>0.1ppm</td>
<td>25ppm</td>
<td>&lt;50</td>
<td>&lt;±1ppm</td>
<td>-20°C/-4°F</td>
<td>55°C/131°F</td>
<td>10ppm ▲</td>
<td>20ppm ▲</td>
</tr>
<tr>
<td></td>
<td>Carbon Monoxide**</td>
<td>100 to 1000ppm</td>
<td>300ppm</td>
<td>100ppm</td>
<td>100ppm</td>
<td>&lt;30</td>
<td>&lt;±6ppm</td>
<td>-20°C/-4°F</td>
<td>55°C/131°F</td>
<td>30ppm ▲</td>
<td>100ppm ▲</td>
</tr>
<tr>
<td></td>
<td>Hydrogen 1.000ppm only</td>
<td>1.000ppm</td>
<td>n/a</td>
<td>5.0ppm</td>
<td>5.0ppm</td>
<td>&lt;40</td>
<td>&lt;±1ppm</td>
<td>-20°C/-4°F</td>
<td>55°C/131°F</td>
<td>5ppm ▲</td>
<td>10ppm ▲</td>
</tr>
<tr>
<td></td>
<td>Nitrogen Dioxide***</td>
<td>10.0 to 50.0ppm</td>
<td>10.0ppm</td>
<td>5.0ppm</td>
<td>5.0ppm</td>
<td>&lt;40</td>
<td>&lt;±3ppm</td>
<td>-20°C/-4°F</td>
<td>55°C/131°F</td>
<td>3ppm ▲</td>
<td>10ppm ▲</td>
</tr>
</tbody>
</table>

* Lowest Alarm Level = 1ppm; Lowest Detection Limit = .5ppm
** Lowest Alarm Level = 15 ppm; Lowest Detection Limit = 10ppm
*** Lowest Alarm Level = 0.6 ppm; Lowest Detection Limit = 0.3ppm

Catalytic Bead Sensors
Flammable 1 to 8 20.0 to 100.0%LEL 100%LEL 10%LEL

Infrared Sensors
Methane 20.0 to 100.0%LEL 100%LEL 10%LEL
Propane 20 to 100%LEL 100%LEL 10%LEL
Carbon Dioxide 2%Vol. only 2%Vol. n/a

NOTE: For Cat Bead and Infrared sensors, Lowest Detectable Limit is 5% LEL and Lowest Alarm Level is 10% LEL.

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 International
ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIC T85°C Db IP66
IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIC T85°C Db IP66

EMC
CE: EN60070:2006 EN6100-6-4:2007

Performance
UL508, CSA 22.2 No. 152 (flammable gases, 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)

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