

Honeywell Gas Detection

Sensepoint XCL Fixed Gas Detector



Quick Start Guide

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Read and understand the Sensepoint XCL Operating Instructions before installing, operating or servicing this product. These are available for download from the Honeywell Analytics website. Visit www.honeywellanalytics.com.

1 Safety

Installation must be in accordance with the recognized standards of the appropriate authority in the country and locality concerned.

2 Analog (mA) Output Versions



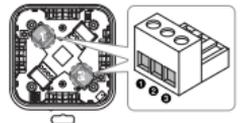
- | | |
|------------------------|-------------------|
| 1) +24 V DC or 24 V AC | 2) 0 V or 24 V AC |
| 3) 4 to 20 mA | 4) Common |

3 Modbus RTU Output Versions



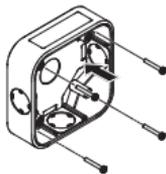
- | | |
|------------------------|-------------------|
| 1) +24 V DC or 24 V AC | 2) 0 V or 24 V AC |
| 3) A | 4) B |

4 Relay Output



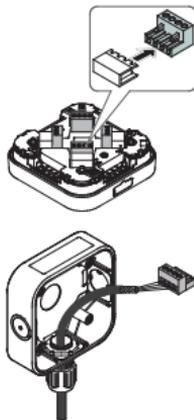
- | | |
|-------------------------|-----------|
| 1) Normally closed (NC) | 2) Common |
| 3) Normally open (NO) | |

5 Securing the Back Box to a Wall



1. There are four screw positions in the rear of the back box for mounting purposes. Punch the required screw positions or drill using a 4 mm drill.
2. Secure the back box in its mounting position with suitable fixings appropriate to the mounting surface. Do not over-tighten.
3. There are four cable entry knock-outs on three of the sides and rear face of the back box. Drill or punch the entries as required.

6 Cable Connections



1. Fit suitable cable glands (included) or conduit fittings to the opened cable entries.
2. Feed the cable through the cable gland.
3. Turn over the detector module and locate the terminal blocks on the back. Remove the terminal blocks, pulling them toward the center of the module.
4. Connect the cable to the appropriate terminal block, referring to section 2 to 4 depending on the version. Strip and insert the end of each wire into the corresponding terminal hole, and tighten the terminal screw, using a flat-blade terminal screwdriver until the wire is secured.
5. Replace the terminal blocks in their correct positions.

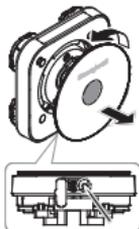
7 Ground Connections

Effective grounding is crucial to ensure stable Modbus communications and to limit the effects of radio frequency interference. Ground points are provided inside the back box. In order to prevent false readings or alarms as a result of ground loops, ensure that the shield of all cables are grounded at a single point, preferably at the controller. Consideration should also be given to how conduit, glands and the internal earth plate are also grounded.

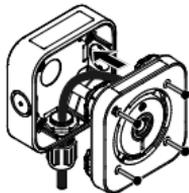
NOTE

Any earth regime must avoid earth loops.

8 Securing the Detector Module to the Back Box



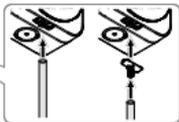
1. Remove the front cover from the detector module to expose the retaining screws as follows:
 - a) Pull the flap on the bottom side to open it.
 - b) To unlock the front cover, insert a thin, straight tool, such as a small screwdriver, into the hole to the right of the tube spigot.
 - c) While applying slight pressure to the tool, turn the cover counterclockwise until it stops, and then lift it out.



2. Position the detector module onto the back box ensuring that the Status Indicator is in the top left-hand corner when viewed from the front.
3. Tighten the four retaining screws using a No. 2 Phillips screwdriver to secure.
4. Where used, tighten the sealing nut of the cable gland to secure the cable. Refer to the cable gland manufacturer's instructions.
5. Replace the front cover by placing it into the detector module and rotate it clockwise until it locks into position.

9 Remote Gassing Connection

If the gas detector is installed in an inaccessible location, such as overhead on a ceiling, connect a tube to the gas detector for bump test.



- For a temporary connection, open the flap on the bottom side and connect suitable tubing compatible with the gas type of the sensor to the tube spigot.
- For a permanent connection, remove the flap, connect the tube connector (available separately) to the spigot, and then connect a tube to the tube connector. Secure the tube using a cable tie or small jubilee clip, taking care not to over-tighten it.

10 Status Indicator

The detector features an external visual status indicator on its front face.



Normal: The indicator is lit **GREEN** when the concentration of the target gas is within normal range.

The Normal indication can also be set to **Confidence Flash** or **Off**.

Alarm: **RED** flashes rapidly when the gas concentration is beyond the alarm-level threshold.

Fault: **YELLOW** flashes rapidly when the gas detector is in a fault state.

Bluetooth pairing: **BLUE** flashes when Bluetooth® pairing between the gas detector and a smartphone is in progress.

Bluetooth connected: Steady **BLUE** is lit when a Bluetooth connection is established.

11 Connecting to a Detector via Bluetooth (Bluetooth versions only)

To pair your smartphone with a specific detector, follow these steps:

1. Download **Sensepoint App** from Google Play Store. Install and launch the app.
2. Create and register a user account, and log on with the created account information.
3. To associate with one or more gas detectors, scan the QR code on the sheet included in the box or enter its Activation Key.
4. Complete the installation of the detectors.
5. On the app's home screen, tap **DETECTORS** to scan for available detectors.
6. Select a detector from the detector list to pair with it.
7. Look for the detector whose Status Indicator is flashing blue.
8. Tap **Confirm Detector** to pair with that detector. Otherwise, tap **Return to list** to select one of the others.

For more information, please refer to the Sensepoint App manual.

When a Bluetooth® connection is established, the detector's reading is displayed on the app interface with the gas type and other information.

1.2 Specifications

Physical specification	
Dimension	113 mm × 113 mm × 59 mm (4.4 × 4.4 × 2.3 in)
Weight	500 g (1.1 lb)
Power supply	
DC input voltage (nominal)	24 V DC ¹
AC input voltage (nominal)	24 V AC ¹ , 50/60 Hz
Inrush current	Less than 850 mA
Maximum power consumption	
mA Versions	< 1.2 W (toxic), < 1.7 W (flammable)
Modbus versions	< 0.7 W (toxic), < 1.2 W (flammable)
Relay versions	Additional 0.6 W
Outputs ²	
Analog output	0 to 22 mA sink or source (configurable)
Digital output	Modbus RTU
Relay output	2 × dry contact relays for fault and alarm signalling. Rated at 5 A @ 24 V DC, 5 A @ 240 V AC
Operating Environment	
Operating temperature	-20 to 50°C (-4 to 122 °F)
Storage temperature	0 to 30°C (32 to 86 °F)
Humidity	0 to 99% (non-condensing) ³
Atmospheric pressure	90 to 110 kPa
Ingress protection	IP65 / Type 4 (in accordance with NEMA 250)
Installation category	II (UL/CSA/IEC/EN 61010-1)
Pollution degree	2 (UL/CSA/IEC/EN 61010-1)
Cable Gland	
Inner knock-out	M20 or ½ NPT
Outer knock-out	M25 or ¾ NPT
Gas Test Tubing	
Inner diameter	4 or 6 mm
Outer diameter	6 or 8 mm

¹ mA versions: 11 to 32 VDC, Modbus versions: 9 to 32 VDC

² 20 to 27 VAC

³ Dependent on version

⁴ Flammable catalytic versions: 10 to 90% RH. Operating the detector outside of this range may result drift and a decrease detector accuracy.

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