Honeywell

Sensepoint XCL

Fixed Gas Detector

Installation Manual

About This Manual

This manual describes how to install the Sensepoint XCL gas detector. This manual should be read by anyone who installs, operates, or maintains InCom gas detectors.

Read this manual before you install the product. Every effort has been made to ensure the accuracy of this document. However, Honeywell can assume no responsibility for any errors or omissions in this document or their consequences. Honeywell would greatly appreciate being informed of any errors or omissions that may be found in the content of this document. For information not covered in this document, or if there is a requirement to send comments or corrections about this document, please contact Honeywell using the contact details given on the back page.

Honeywell reserves the right to change or revise the information supplied in this document without notice and without obligation to notify any person or organization of such revision or change. If information is required that does not appear in this document, contact the local distributor, agent, or Honeywell.

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Chapter 1
Introduction

1.1 Features

Sensepoint XCL is a single sensor fixed gas detector, which supports the following interfaces dependent on the model:

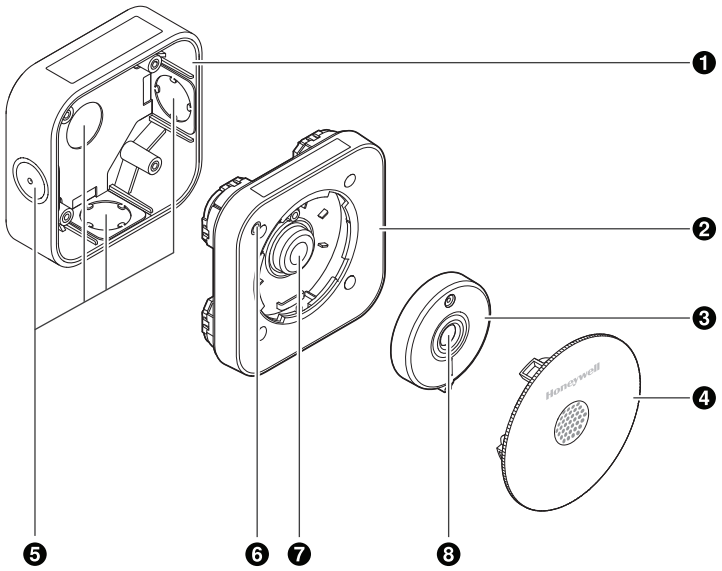
Analog output: Sensepoint XCL features current loop output, supporting signals in the range 0 to 22 mA.

Digital output: Sensepoint XCL supports Modbus RTU digital communications.

Relay output: Sensepoint XCL provides two change-over relays for signaling to external control systems or controlling external alarming devices, for example audible and visual alarm indicators.

Mobile app: A mobile app is available to commission and maintain the Sensepoint XCL gas detector.

1.2 Appearance



1) Back box	2) Gas detector module
3) Sensor cover	4) Front cover
5) Cable entries	6) Visual indicator
7) Gas sensor	8) Dust protection membrane

1.3 Detectable Gases

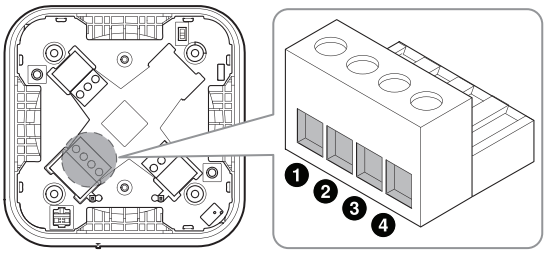
Sensepoint XCL is available for the detection of the following gases:

- Oxygen (O_2)
- Toxic gases
  - Ammonia (NH_3)
  - Carbon dioxide (CO_2)
  - Carbon monoxide (CO)
  - Hydrogen (H_2)
  - Hydrogen sulfide (H_2S)
  - Nitrogen dioxide (NO_2)
- Combustible gases

1.4 Detector Connections

The 4-way terminal block provides connection of both the gas detector output and the power supply.

Analog (mA) Output Versions



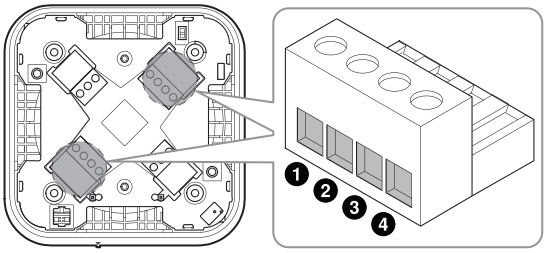
1) +24 V DC or 24 V AC	2) 0 V or 24 V AC
3) 4 to 20 mA	4) Common

For details on wiring for analog output, see **Analog (mA) Output Versions** on page 16 and **Current Source/Sink Selection** on page 17.

Modbus Output Versions

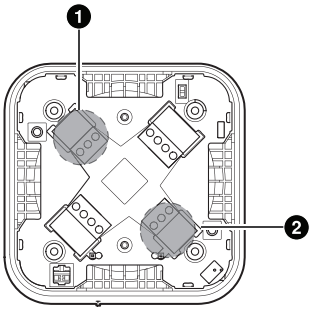
NOTE

Use of the mobile app is required to change the configuration settings of the Modbus RTU interface.



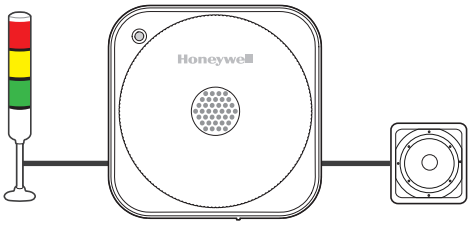
1) +24 V DC or 24 V AC	2) 0 V or 24 V AC
3) A	4) B

1.5 Relay Output

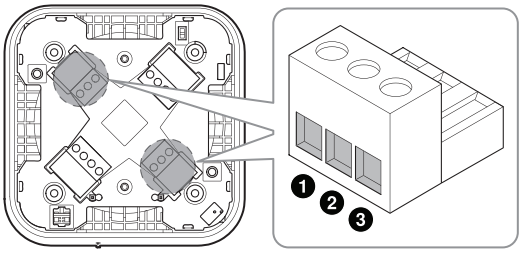


1) Relay No. 1	2) Relay No. 2

There are two configurable relays which can be used to control or signal to external devices, such as audible and visual alarms and other control systems.



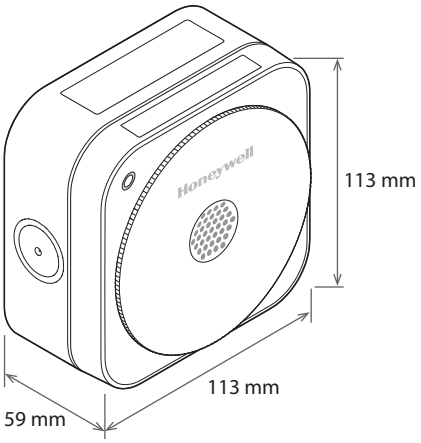
Connection to these relays are made through the two three-way terminal blocks.



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

1.6 Specifications

Dimensions and Weight



Length	113 mm
Depth	59 mm
Height	113 mm
Weight	500 g

Power Supply

DC input voltage	24 V DC[1]
AC input voltage	24 V AC[2], 50/60 Hz
Inrush current	Less than 850 mA

[1] 9 to 32 V DC
[2] 20 to 27 V AC

Sensepoint XCL requires an isolated power supply unit that is certified by a national or international standard, such as UL.

Outputs

Analog output	0 to 22 mA sink or source (configurable)
Digital output	Modbus RTU
Relay output	Two configurable relays normally energised for fault signalling and normally de-energised for alarm signalling

Maximum Power Consumption

The power consumption varies, depending on output mode and sensor type. The total power consumption for two relay outputs is 0.6 W.

Analog Output Mode

	In normal state	During an alarm
Electrochemical-cell-type sensors	0.5 W	1.2 W
Catalytic-type sensors	1 W	1.7 W
Infrared-type sensors	1 W	1.7 W

Digital Output Mode

	In normal state	During an alarm
Electrochemical-cell-type sensors	0.2 W	0.7 W
Catalytic-type sensors	0.7 W	1.2 W
Infrared-type sensors	0.7 W	1.2 W

Operating Environment

Operating temperature	-20 to 50°C
Storage temperature	0 to 30°C
Humidity	0 to 100% (non-condensing)
Atmospheric pressure	90 to 110 kPa
Altitude	Lower than 2000 m
Installation category	II (UL/CSA/IEC/EN 61010-1)
Pollution degree	2 (UL/CSA/IEC/EN 61010-1)

NOTE

Sensepoint XCL is designed to be installed indoors only.

Wall-Mounting Screws

Thread diameter	4 mm
Length	longer than 25 mm

Cable Gland

Inner knockout	M20 or ½ NPT
Outer knockout	M25 or ¾ NPT

Gas Test Tubing

For a bump test, use urethane tubing with one of the below specifications. See **Remote Gassing Connection** on page 25.

Inner diameter	Outer diameter
4 mm	6 mm
6 mm	8 mm

Chapter 2
Installation

2.1 Safety Information

> ⚠ **CAUTION**
>
> Failure to observe the precautions described in this section can cause injury to persons or damage to property.

Observe these precautions:

- To minimize the risk of electrostatic charge, provision shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.
- When Sensepoint XCL reaches the end of its life, it should be disposed of in accordance with local regulations.
- Do not use cleaning solvents or abrasives to clean the gas detector.

Installation must be in accordance with the recognized standards of the appropriate authority in the country concerned. For Europe, see EN60079-14, EN60079-29-2, and EN61241-14. For installations in North America, the National Electrical Code (NFPA 70) should be strictly observed. Elsewhere the appropriate local or national regulations should be used.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference.

2) This device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to pro-vide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

⚠ CAUTION

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

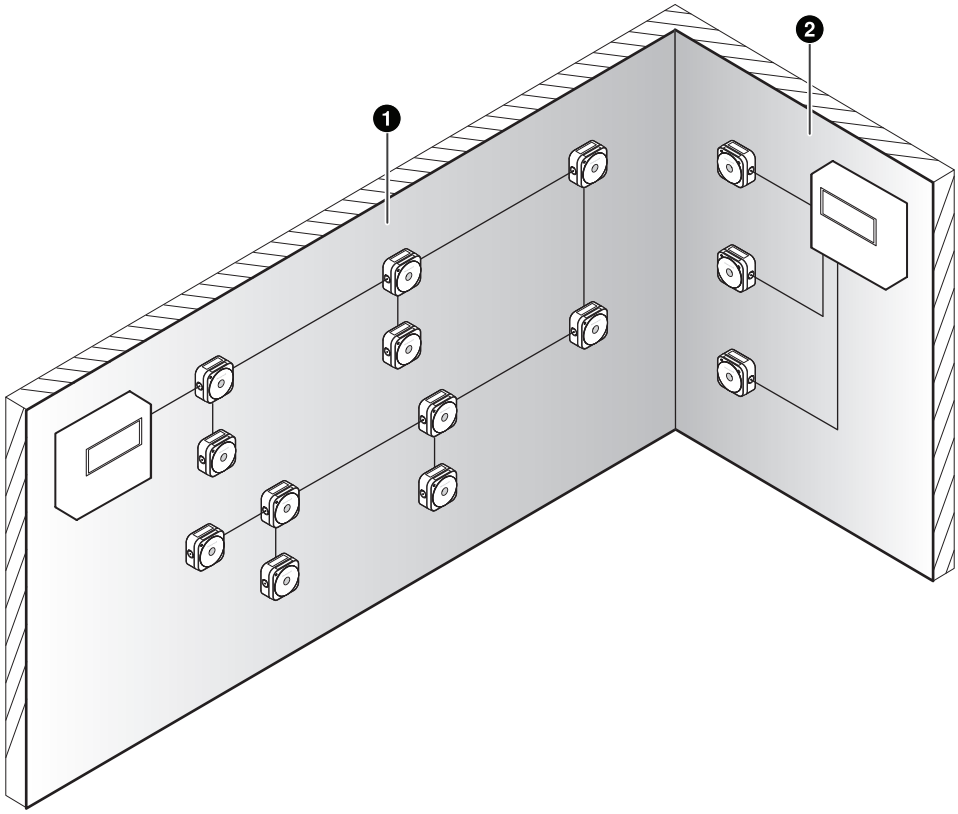
IC Information

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1) This device may not cause interference.
2) This device must accept any interference, including interference that may cause undesired operation of the device

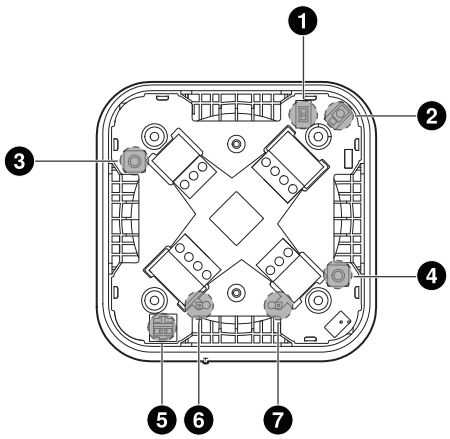
Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage;
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.

2.2 Installation Layout



1) A gas detection system using Modbus RTU. Detectors are wired in a daisy chain on a single cable run.
2) A gas detector system using analog current loop principle. Each detector is individually wired to the controller on its own cable.

2.3 Detector Module

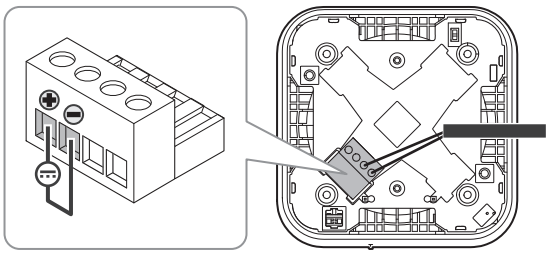


1) Inhibit switch	2) LED indicator
3) Up button	4) Down button
5) Current sink/source selection switch	
6) Voltage output (negative)	
7) Voltage output (positive)	

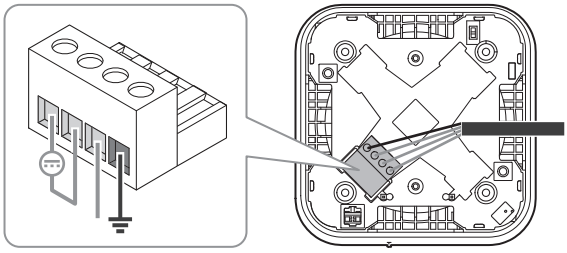
2.4 Analog (mA) Output Versions

Power Connection

When connecting to DC power, make sure that the polarity is correct.

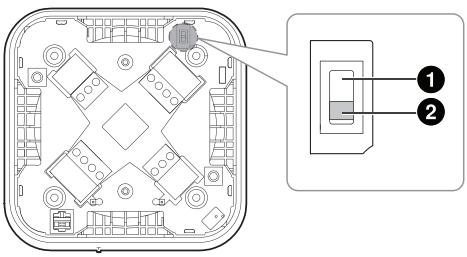


If an external power source is used, make sure that the fourth terminal is properly grounded for analog output.



Inhibit Level Selection

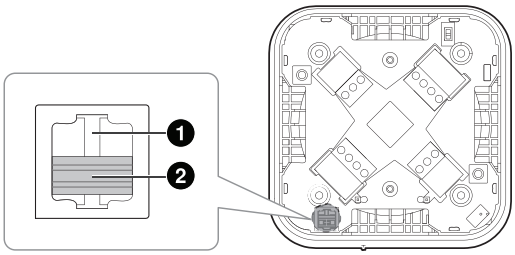
Use the inhibit switch to determine what level of current is used in inhibit mode.



1) With this switch in the outer position, a current of 4 mA is output in inhibit mode. In the case of oxygen versions only, 17.4 mA is used.
2) With this switch in the inner position, a current of 2 mA is output in inhibit mode on all versions.

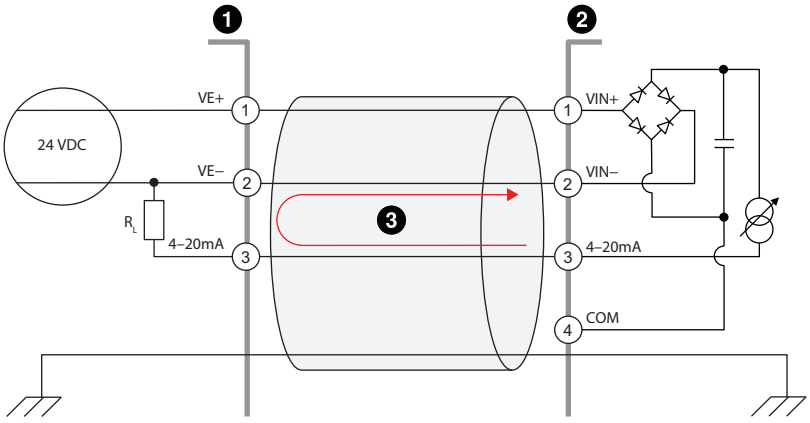
Current Source/Sink Selection

Use the current source/sink switch to choose between source mode and sink mode.



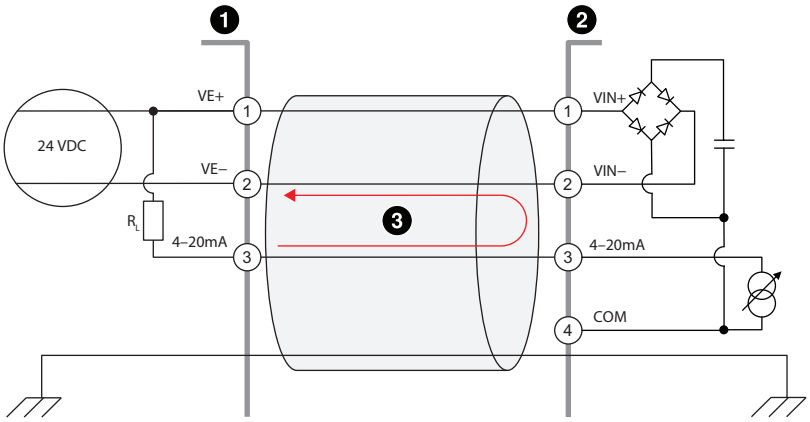
1) With this switch in the inner position, analog output works in sink mode.
2) With this switch in the outer position, analog output works in source mode.

Detector Source Mode with DC Power



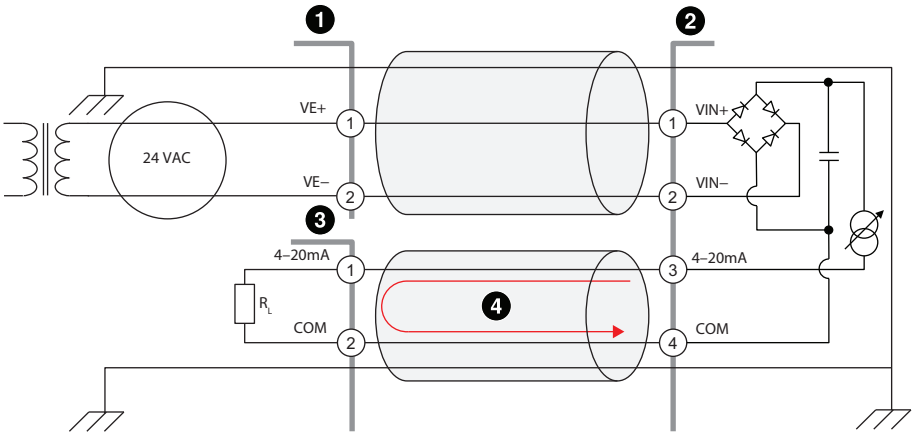
1) System controller
2) Sensepoint XCL detector
3) Current flow

Detector Sink Mode with DC Power



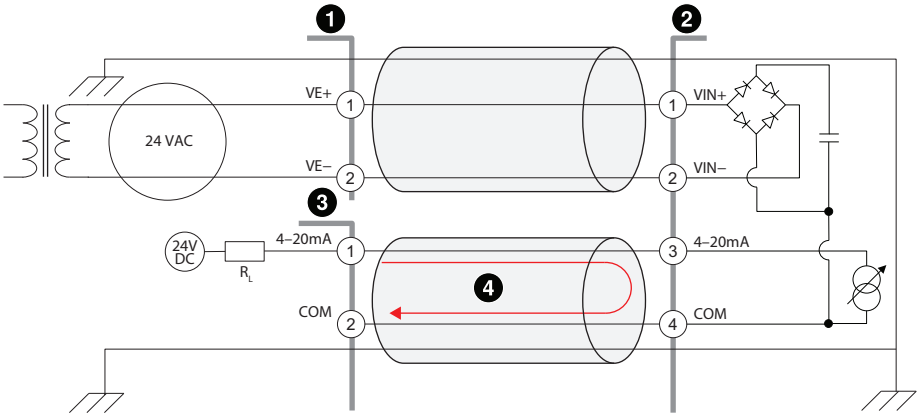
1) System controller
2) Sensepoint XCL detector
3) Current flow

Detector Source Mode with AC Power



1) External power supply
2) Sensepoint XCL detector
3) System controller
4) Current flow

Detector Sink Mode with AC Power

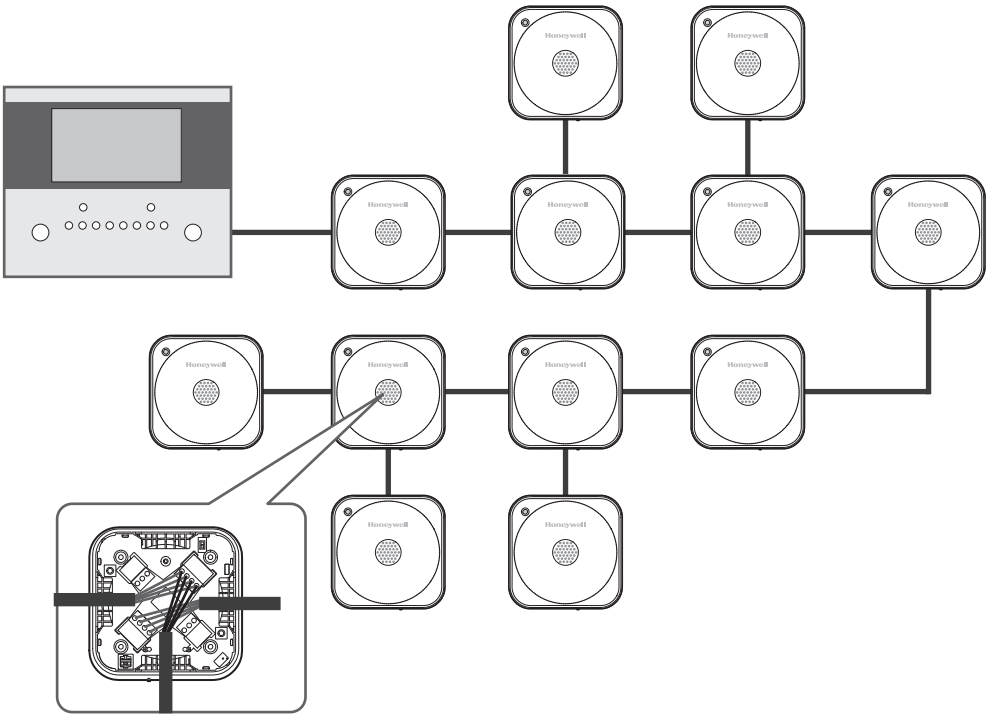


1) External power supply	2) Sensepoint XCL detector
3) System controller	4) Current flow

2.5 Modbus Output Versions

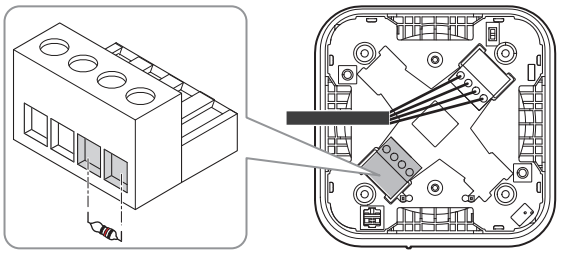
Modbus Connection

For Modbus versions, up to 32 Sensepoint XCL detectors can be connected in a daisy chain arrangement as shown in the diagram below.



Terminal Resistor

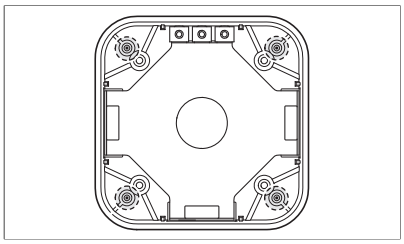
Attach a 120 Ω, 0.25 W terminal resistor to D0 and D1 terminals at the end of the line.



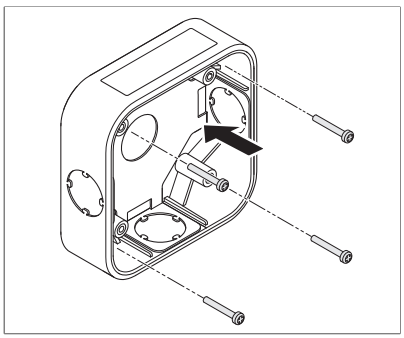
2.6 Securing the Back Box to a Wall

⚠ CAUTION

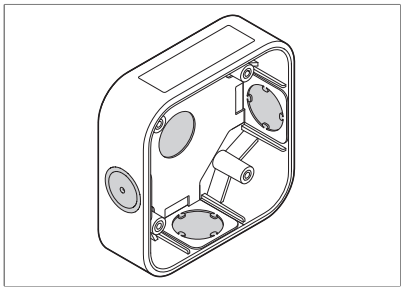
Before starting installation, make sure that the system controller or external power source is not supplying power



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.

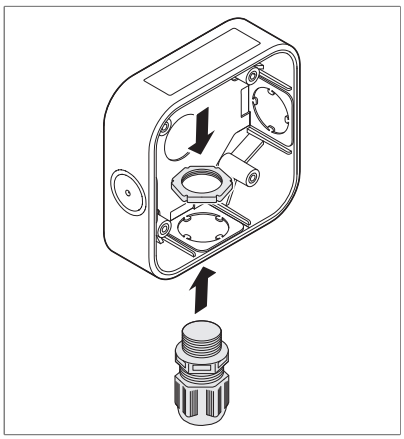


2. Secure the back box in its mounting position with suitable fixings appropriate to the mounting surface. Do not over-tighten.

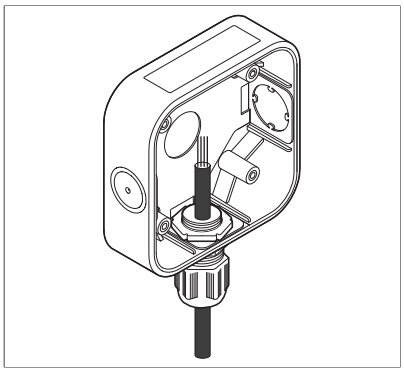


3. There are four cable entry knock-outs on three sides and rear face of the back box. Drill or punch the entries as required.

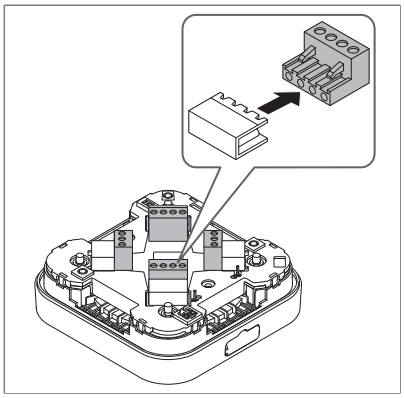
2.7 Cable Connections



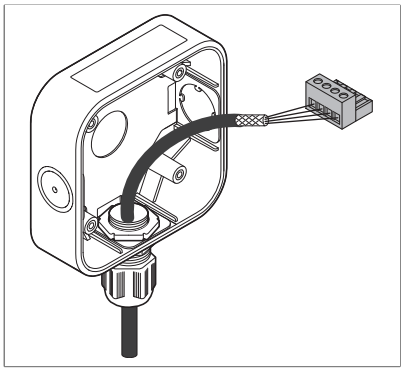
1. Fit suitable cable glands to the opened cable entries.



2. Feel the cable through the cable gland.

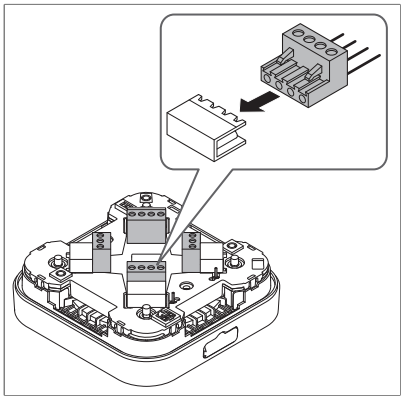


3. Turn over the detector module and locate the terminal blocks on the back. Remove the terminal blocks, pulling them toward the center of the module.



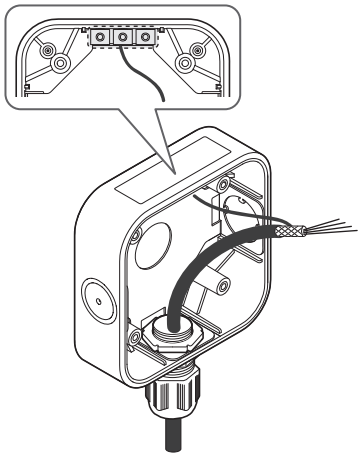
4. Connect the cable to the appropriate terminal block. Strip and insert the end of each wire into the corresponding terminal hole, and tighten the terminal screw, using a flat-blade terminal screwdriver until the wire is secured.

> ⚠ **CAUTION**
>
> Do not over-tighten the terminal screw.



5. Replace the terminal blocks in their correct positions.

2.8 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.

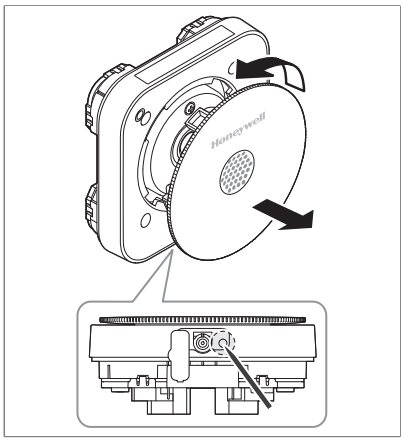
NOTE

Any earth regime must avoid earth loops.

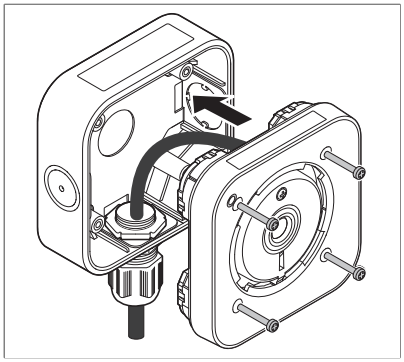
2.9 Securing the Detector Module to the Back Box

NOTE

If the mobile Sensepoint XCL app is available, proceed to the next stage to complete the installation, and then perform a calibration using the Sensepoint XCL app. Otherwise, perform a calibration before securing the detector module to the back box. For details about how to calibrate without the Sensepoint XCL app, see **Calibration** on page 30.

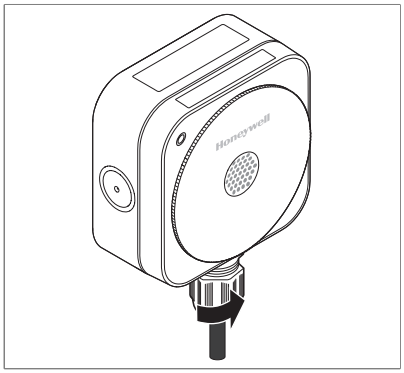


1. Remove the front cover from the detector module to expose the retaining screws as follows:
   a) Pull the flap on the bottom side to open it.
   b) To unlock the front cover, insert a thin, straight tool, such as a small screwdriver, into the hole beside the tube spigot.
   c) While applying slight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

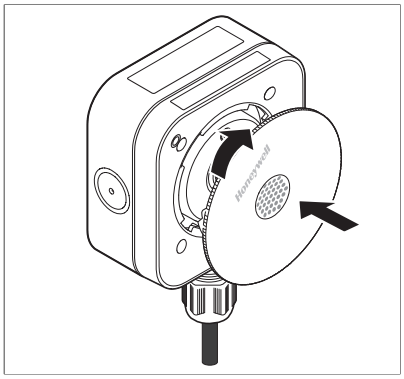


2. Tighten the retaining screws using a number-2 phillips screwdriver to secure the detector module to the back box.

> ⚠ **CAUTION**
> Do not over-tighten the screws.

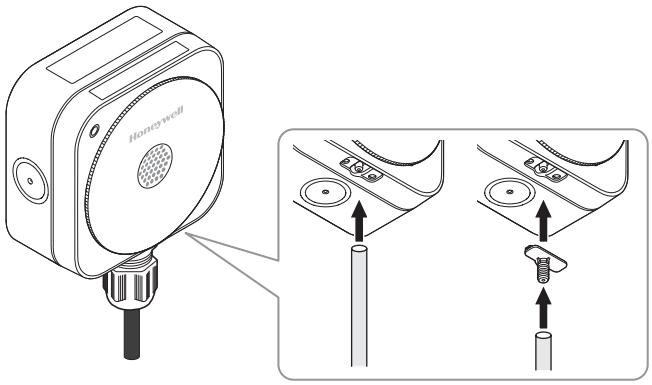


3. Where appropriate, tighten the sealing nut of the cable gland to secure the cable.



4. Replace the front cover. Place the front cover into the detector module with the logo at a 45 degree angle as shown and rotate it clockwise until it locks into position.

2.10 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 or calibration.

- 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 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.

Chapter 3
Commissioning

3.1 External Status Indicator

There is one visual indicator on the face of the gas detector. It turns on solid or flashes in four different colors to show the operating status.

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

  NOTE

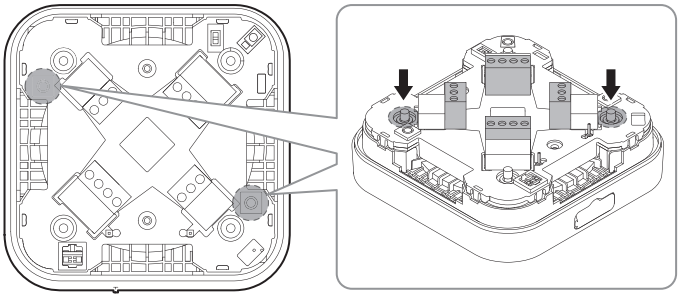
  Using the mobile Sensepoint XCL app, you can change how the green indicator behaves during normal operation, for example, like slow intermittent flashing or staying off.

- **Warning**: It flashes green when the gas detector is in a warning state.
- **Fault**: It flashes yellow when the gas detector is in a fault state.
- **Inhibited**: It is on solid yellow when the user has placed the detector into the inhibit state for maintenance or repair.
- **Alarm**: It rapidly flashes red when the gas concentration is beyond the high-level threshold.
- **Out-of-range alarm**: It flashes red with short and long pauses when the gas concentration is outside of the normal range.

- **Bluetooth pairing**: It flashes blue when Bluetooth pairing between the gas detector and an Android device is in progress.
- **Bluetooth connected**: It is on solid blue when a Bluetooth connection is established.

3.2 Using the Setting Buttons

When the mobile Sensepoint XCL app is not available, the setting buttons allow you to perform a calibration or bump test. Be familiar with how to use the setting buttons.



Switch from monitor mode to inhibit mode. Press and hold the up and down buttons simultaneously for 2 seconds.

NOTE

Make sure that the inhibit level is set to the desired level. See Inhibit Level Selection on page 16.

Increase the output voltage. Briefly press the up button. Pressing once increases by 0.01 V. To go up by 0.1 V, press and hold the button.

Decrease the output voltage. Briefly press the down button. Pressing once decreases by 0.01 V. To go down by 0.1 V, press and hold the button.

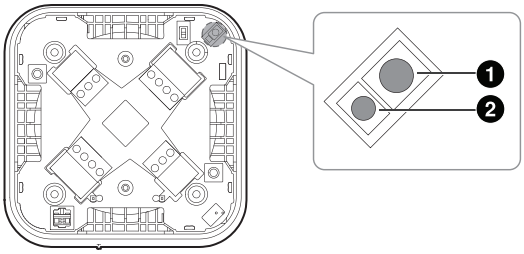
Move to the next stage. Press and hold the up and down buttons simultaneously for 2 seconds. If a change has been made, it is saved before proceeding to the next stage.

At any stage, exit to monitor mode without saving any changes made. Press and hold both buttons simultaneously for 5 seconds.

3.3 Internal Status Indicator

There are two indicators on the rear of the detector module. When doing maintenance, such as calibration or sensor replacement, using the set-

ting buttons, refer to those indicators to see what the detector's status is.



1) This RGB indicator behaves differently according to the detector's status.
2) This yellow indicator stays on while in inhibit mode.

Inhibit mode

While in inhibit mode, the yellow indicator stays on .

Sensor replacement mode

While in sensor replacement mode, the yellow indicator stays on, and the RGB indicator slowly flashes red . When in warm-up, the RGB indicator flashes yellow .

Zero calibration

At zero calibration, the RGB indicator flashes yellow . The RGB indicator flashes green if the zero calibration succeeds, but flashes red if it fails.

Span calibration

At span calibration, the RGB indicator flashes yellow . The RGB indicator flashes green with two short pauses if the zero calibration succeeds, but flashes red with two short pauses if it fails.

Calibration gas purge

While the calibration gas is purged, the RGB indicator flashes yellow .

Cancel

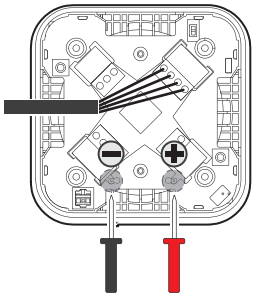
When a task is canceled, the RGB indicator flashes yellow with three short pauses.

Chapter 4
Maintenance

4.1 Calibration

This section describes how to perform a calibration using the setting buttons. Before starting calibration, make sure that the gas detector is powered on.

1. Activate inhibit mode. Make sure that the LED indicator is solid yellow.
2. Put the positive probe of a voltmeter on the positive terminal, and the negative probe on the negative terminal.



3. Proceed to the next stage to calibrate the zero point.
    a) If there is any doubt of gas being present in the atmosphere, connect a cylinder of fresh air to the detector using the installed tube or the calibration cap. For details about how to use a calibration cap, see **Calibration Cap** on page 31.
    b) Apply fresh air to the detector, and wait for a few minutes until the reading is stable.
    c) Adjust the output voltage so that the DVM is reading slightly above zero, and then decrease the reading slowly so that it reads zero.
4. Calibrate the span.

a) Connect a cylinder of span gas to the detector. The cylinder concentration should be approximately 50% of the range of the detector.
b) Apply the span gas to the detector, and wait for a few minutes until the reading is stable.
c) Adjust the output voltage until it reaches the target value. Use the formula below to calculate what the correct voltage should be.

V_{out} = Gas concentration ÷ detector range

For example, if you are applying 45% LEL gas with a 100% LEL detector range, you would need to adjust the voltage output so that the reading on the DVM shows:

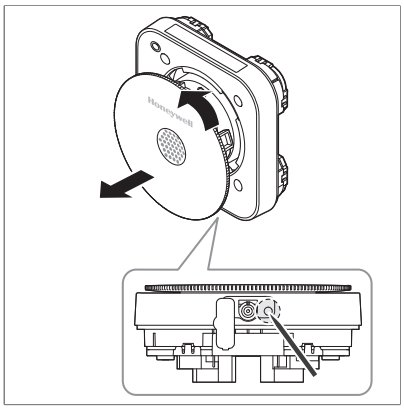
45 ÷ 100 = 0.45 V

5. Purge the gas sensor.
   a) Remove the span gas from the detector.
   b) Make sure that the reading voltage out returns to zero. If there is any doubt that the detector is not in fresh air, apply cylinder air. Otherwise, a false alarm may occur.
6. Exit to monitor mode.

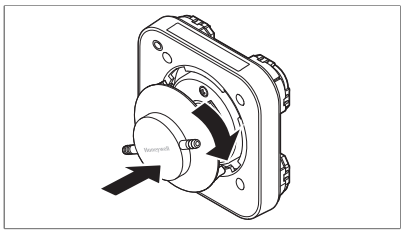
If repeated calibration attempts continue to fail, replace the gas sensor with a new one, and then try again. See **Replacing the Sensor** on page 34.

4.2 Calibration Cap

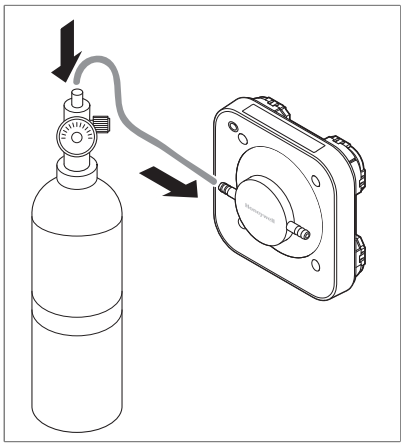
If the detector has no tube installed, a calibration cap for Sensepoint XCL, which is sold separately, is required to do a calibration. Use this method to apply a reference gas to the detector using a calibration cap.



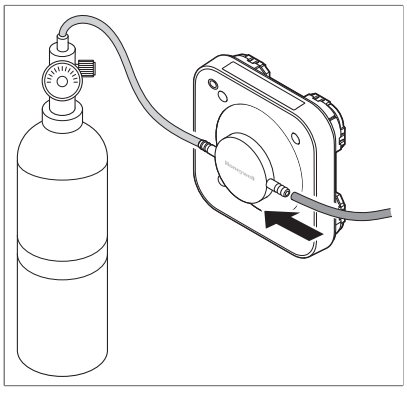
1. Remove the front cover.
   a) Pull the flap on the bottom side to open it.
   b) Insert a thin, straight tool, such as a paper clip, into the hole beside the tube spigot.
   c) While applying slight pressure to the tool, turn the cover counter-clockwise until it stops, and then pull it out.



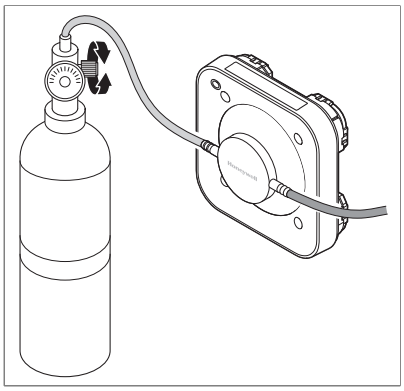
2. Attach the calibration cap to the detector. Insert the calibration cap into the front of the detector as shown, and turn it clockwise until it locks into place.



3. Connect a tube from a cylinder of calibration gas to either of the cap's spigots.



4. Connect another tube to the other spigot, and put the other end of the tube to ventilate away from the work area.



5. To start a gas flow, turn the regulator knob counterclockwise.
6. To stop the gas flow, turn the regulator knob clockwise.

⚠ CAUTION

Always use a gas cylinder that is within its expiry date.

4.3 Bump Test

This section describes how to perform a bump test using the Sensepoint XCL mobile app. For details about the mobile app, see **Replacing the Sensor** on page 36.

Bump testing is the process of briefly exposing the gas sensor to a known concentration of reference gas that is greater than the low alarm threshold. This is the only way to verify the proper operation of the gas detector.

1. Connect a cylinder of reference gas to the target detector using the installed tube or the calibration cap. For details about how to use a calibration cap, see **Calibration Cap** on page 31.
2. Connect your smartphone with the target detector via Bluetooth.

   NOTE

   For carbon monoxide (CO) versions, make sure that the detector is in UL 2075 alarm mode.
3. Activate the detector's inhibit mode.
4. Apply the reference gas to the detector.

   NOTE

   For CO versions, apply 300 ml of 100 ppm carbon monoxide for 3 minutes.
5. If the detector fails the bump test, calibrate the detector.

NOTE

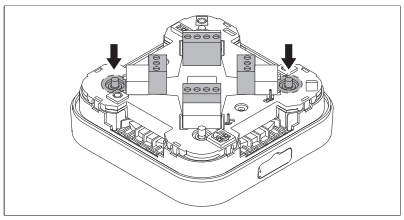
For CO versions, perform bump test twice a year.

4.4 Replacing the Sensor

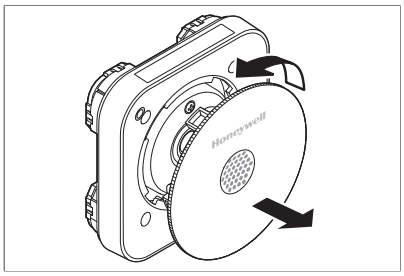
NOTE

The operating lifetime of the CO sensor is 6 years.

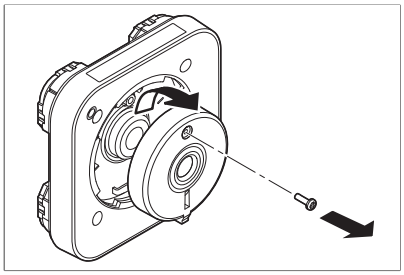
If the mobile Sensepoint XCL app is not available, make sure that power is removed before replacing the gas sensor.



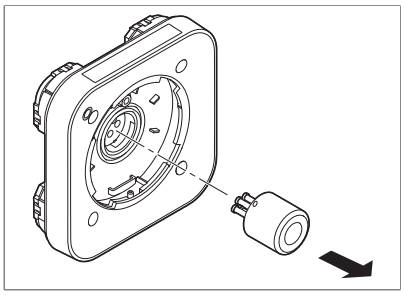
1. Press and hold both buttons simultaneously for 10 seconds to switch to sensor replacement mode. In this mode, the detector output is inhibited and the sensor is disconnected from power.



2. Remove the front cover to expose the sensor cover.
   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 beside the tube spigot.
   c) While applying slight pressure to the tool, turn the cover counter-clockwise until it stops, and then pull it out.



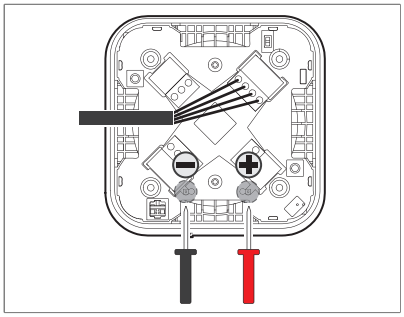
3. Remove the sensor cover.
   a) Loosen the screw on the upper part of the sensor cover.
   b) Holding the screw, tilt it downwards from the upper edge of the cover.



4. Pull out the gas sensor to remove it.

> **⚠ CAUTION**
>
> Do not force the sensor into the socket, otherwise it may be damaged.

5. Ensuring that the sensor pins are correctly aligned, insert a new sensor into the sensor socket.
6. Press and hold both buttons simultaneously for 3 seconds to activate warm-up mode. In this mode, the output continues to be held in its inhibit state.



7. Connect a cylinder of reference gas to the detector using the installed tube or a calibration cap.
8. Apply a reference gas to the detector, and measure the output voltage to see if the reading is stable and the correct value according to this formula.

   V_{out} = Gas concentration ÷ detector range

9. Switch to monitor mode.
10. Replace the sensor cover.

Chapter 5
Mobile App

A dedicated mobile app for Sensepoint XCL is available. The mobile app makes it much easier to monitor and maintain Sensepoint XCL detectors. The general procedure of using the mobile app is as follows:

1. Download the Sensepoint XCL app from Google Play, and launch the app.
2. Create an administrator account.
3. To associate with an installed detector, scan the QR code on the sheet included in the box.
4. Tap **DETECTORS** from the app home screen to scan for available gas detectors.
5. Select a gas detector from the detector list to pair with it.
6. Look for the detector whose LED indicator is flashing blue.
7. Tap **Confirm Detector** to pair with that detector. Otherwise, tap **Return to list** to select one of the others.

When a Bluetooth connection is established, the detector's reading is displayed on the app interface with the gas type. For details how to use the mobile app, refer to the Sensepoint XCL app manual.

NOTE

For carbon monoxide (CO) versions, use the Sensepoint XCL mobile app to change the alarm mode setting to UL 2075.

Appendix A
Warranty

Honeywell Analytics warrants the Sensepoint XCL gas detector against defective parts and workmanship.

This warranty does not cover consumable, batteries, fuses, normal wear and tear, or damage caused by accident, abuse, improper installation, unauthorized use, modification or repair, ambient environment, poisons, contaminants or abnormal operating conditions.

This warranty does not apply to sensors or components that are covered under separate warranties, or to any 3rd-party cables and components.

In no event shall Honeywell Analytics be liable for any damages or injury of any nature or kind, no matter how caused, that arise from incorrect handling or use of this equipment.

In no event shall Honeywell Analytics be liable for any equipment malfunction or damages whatsoever, including (without limitation) incidental, direct, indirect, special, and consequential damages, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss, resulting from the incorrect installation or use of this equipment.

Any claim under the Honeywell Analytics Product Warranty must be made within the warranty period and as soon as reasonably practicable after a defect is discovered. Please contact your local Honeywell Analytics Service representative to register your claim.

This is a summary. For full warranty terms please refer to the Honeywell Analytics' ***General Statement of Limited Product Warranty***, which is available on request.

Appendix B

Safety Information for Wireless Devices

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

⚠ CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

RF Exposure Information

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This device has very low levels of RF energy that it is deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

Appendix C
Certification

Electrical Safety

- UL 61010-1
- CSA C22.2 No. 61010-1
- IEC/EN 61010-1

Electromagnetic Compatibility

- EN 50270:2015

Radio

- R&TTE
- FCC / IC Contains FCC ID: 2AISERMBLEM5
  Contains IC ID: 21613-RMBLEM5 (HMN: Sensepoint XCL)
- BT SIG

Enclosure Protection

- IP55
- NEMA Type 4

Gas Performance

- UL 2075 (CH_4 and CO)

Appendix D
Contact Information

For more contact information, visit www.honeywellanalytics.com.

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Middle East Tel: +971 4 450 5852 (Portable gas detection)

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Honeywell

Keep this manual for later use.

2108M0550_Issue_1
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