TECHNICAL MANUAL

Sensepoint XCD

Gas Detector





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REVISION HISTORY

Rev.	ECO No.	Date	Comment
12	HAA190090	Mar 2020	
13	ECN-00210131	May 2022	
14	ECN-00230026	May 2023	
15	ECN-00230006	Nov 2023	

1. Safety

Ensure that this Technical Manual is read and understood **BEFORE** installing/ operating/ maintaining the equipment. Pay attention to **Warnings** and **Cautions**. All document **Warnings** are listed here and repeated where appropriate at the start of the relevant chapter(s) of this Technical Manual. **Cautions** appear in the sections/sub-sections of the document where they apply.

WARNINGS

Sensepoint XCD is designed for installation and use in Zone 1 or 2 hazardous areas in many countries including Europe and for Class 1 Division 1 or 2 area applications in North America.

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

Access to the interior of the detector, when carrying out any work, must only be conducted by trained personnel.

Before carrying out any work ensure local regulations and site procedures are followed. Appropriate standards must be followed to maintain the overall certification of the detector.

For installations where conduit is used, and the sensor is mounted directly to the Sensepoint XCD, there must be a 'Seal Fitting' installed for each of the cable gland entries within 18 inches of the Sensepoint XCD. The total distance of the location of these Seal Fittings is 18 inches. (e.g. If all 3 gland entries are to be used, 3 Seal Fittings should be located, each within 6 inches of the wiring entrance).

In order to maintain electrical safety, the product must not be operated in atmospheres with more than 21 % oxygen. Oxygen deficient atmospheres (Combustible: less than 10 % v/v, Toxic: less than 6 % v/v) may suppress the sensor output.

If using an anti-seize compound, the threads should be thinly coated with an approved silicone free compound e.g. petroleum jelly.

To reduce the risk of ignition of hazardous atmosphere, de-classify the area or disconnect the equipment from the supply circuit before opening the detector enclosure. Keep assembly tightly closed during operation.

Never attempt to open a junction box/enclosure or replace/refit the sensor in potentially hazardous atmospheres while power is still applied to the transmitter.

The detector must be earthed/grounded for electrical safety and to limit the effects of radio frequency interference. Earth/ground points are provided inside and outside the unit. The internal grounding shall be used as the primary equipment ground. The external terminal is only a supplemental bonding connection where local authorities permit or require such a connection.

Ensure that all screens/instrument earth/clean earth wiring is earthed/grounded at a single point (either at the controller or detector - BUT NOT BOTH) to prevent false readings or alarms that may occur due to potential earth/ground loops.

Take care when handling sensors as they may contain corrosive solutions. Do not tamper with or in any way disassemble the sensor.

Do not expose to temperatures outside the recommended ranges.

Do not expose sensors under storage conditions to organic solvents or flammable liquids.

At the end of their working life, replacement electrochemical sensors for oxygen and toxic gas must be disposed of in an environmentally safe manner. Disposal should be according to local waste management requirements and environmental legislation.

Alternatively, old replaceable sensors may be securely packaged and returned to Honeywell Analytics clearly marked for environmental disposal.

Electrochemical sensors should NOT be incinerated as this action may cause the cell to emit toxic fumes.

Refer to the local or national regulations relative to the installation at the site. For Europe see EN60079-29-2, EN60079-14, EN45544-4 and EN61241-14.

This equipment is designed and constructed as to prevent ignition sources arising, even in the event of frequent disturbances or equipment operating faults.

The sensor head must be fitted with the supplied weather protection and mounted so that the sinter is pointing downward to provide ingress protection IPX6.

The weather protection is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

The transmitter has a potential electrostatic charging hazard. To minimize the risk of electrostatic discharge:

• Ground the transmitter adequately

• Install the transmitter in a manner that will prevent accidental electrostatic discharges, e.g. ensure that objects do not rub against the housing etc.

Clean the enclosure with a damp cloth when necessary

The purchaser should make the manufacturer aware of any External effects or Aggressive substances that the equipment may be exposed to.

The equipment including the flameproof joints is not intended to be repaired.

When choosing cable and cable gland or conductors in conduit, user should take into account temperature range. Note that it should be greater than at least 90 °C.

Note: The control card must have a suitably rated fuse.

1.1. Special conditions for safe use – Sensepoint XCD with Flammable Sensor

- 1. Compliance with the Technical Manual is required for safe use of Sensepoint XCD.
- 2. The following environmental conditions of operation apply for the use of the Sensepoint XCD:

Temperature:	-20°C to +55°C	
Relative humidity:	10 % to 90 %	
Pressure:	80 kPa to 120 kPa	
(extended range for humidity according to EN 60079-29-1		

- 3. In order to minimize measurement errors, the ambient conditions (temperature, pressure, humidity) during the calibration of the measuring channels should be as close as possible to those to be encountered during normal operation.
- 4. Measuring values from -8 % LEL to +5 % LEL are indicated as '0 % LEL' (4 mA analogue output) in the measuring mode when deadband is on. When deadband is off, the negative gas reading shall be indicated on display and mA output. Below -8 %LEL is indicated as negative fault 'F03'.
- 5. Measuring values beyond the end of the measuring range are indicated as 100 % LEL and alternately blinking 'W04' and 'W05'. The analogue output is set to 22 mA.
- 6. Special states for Analogue output:
 - ≤ 1 mA: System and other faults
 - 2 mA: Start up, Inhibit
 - 4 20 mA: Gas reading (when deadband is on)
 - 2.4 20 mA: Gas reading (when deadband is off)
 - 22 mA: Over range
- 7. If the Sensepoint XCD is operating in conjunction with a control unit to analyse the measuring signal, only Analogue output (mA output) shall be considered as a safety function and the control unit must operate correctly when the XCD transmits a value outside of the measuring range.
- 8. If substances (e. g. sensor poisons) that could interfere with and affect the sensitivity of the sensing device are to be expected in the atmosphere to be monitored which may cause a rapid change of sensitivity, the calibration interval shall be reduced.
- 9. Before use, ensure that any alarm delay set is suitable for the intended application.
- 10. Some types and concentrations of dust in the measured atmosphere may impair the measuring function of the gas detector.
- 11. Use only with the Weather Protection Cup accessory (P/N SPXCDWP). All accessories are not the scope of EN 60079-29-1 performance approval.
- 12. The EC-Type examination certificate only applies to the measuring of Methane, Ethane and Propane in air and up to the Lower Explosive Limit (LEL). Additional subtests of an ATEX notified body are required for the measuring of other flammable gases, the results being informed about as addition to this certificate.

1.2. Special conditions for Sensepoint XCD with Oxygen Sensor

- 1. Compliance with the Technical Manual is required for safe use of Sensepoint XCD.
- 2. The following environmental conditions of operation apply for the use of Sensepoint XCD with oxygen sensor:

Temperature:	-20°C to +55°C		
Relative humidity:	10 % to 90 %		
Pressure:	80 kPa to 120 kPa		
(extended range for temperature according to EN 50104)			

- 3. In order to minimise measurement errors, the ambient conditions (temperature, pressure, humidity) during the calibration of the measuring channels should be as close as possible to those to be encountered during normal operation.
- 4. Measuring values from 20.7 % v/v up to 21.1 % v/v are indicated as
 '20.9' % v/v oxygen during operation in the measuring mode. Measuring values below 3 % v/v oxygen are indicated as 0 % v/v oxygen (analogue output 4 mA).
- 5. Measuring values above the end of the measuring range are indicated as $25 \% v/v O_2$ and blinking 'W04'. The analogue output is set to 22 mA.

Fault messages are shown on the display as 'F-XX' and the analogue output is set to 1 mA.

- 6. Special states for Analogue output:
 - ≤ 1 mA: System and other faults
 - 2 mA: Start up, Inhibit
 - 22 mA: Over ranging
- 7. If the Sensepoint XCD is operating in conjunction with a control unit to analyse the measuring signal, the control unit must operate correctly when the XCD transmits a value outside of the measuring range.
- 8. Use without Weather Protection Cup accessory (P/N SPXCDWP), only.
- 9. If substances (e. g. sensor poisons) that could interfere with and affect the sensitivity of the sensing device are to be expected in the atmosphere to be monitored which may cause a rapid change of sensitivity, the calibration interval shall be reduced.
- 10. Before use, ensure that any alarm delay set is suitable for the intended application.
- 11. Before use, consideration must be given to cross sensitivity to other gases. Refer to the Sensepoint XCD Technical Manual and the Sensor Datasheet for cross interference data.
- 12. Some types and concentration of dust in the measured atmosphere may impair the measuring function of the gas detector.
- 13. The Type Examination Certificate applies to the measurement of oxygen up to 25 % v/v.

2. Information

This Technical Manual is for use with the Sensepoint XCD range transmitters only.

The Start-up/Surge/In rush current is dependent on the type of power supply used. The typical start-up current for Sensepoint XCD is less than 800 mA. Measure the start-up current using the specific power supply before installation to ensure suitability for your application.

Honeywell Analytics can take no responsibility for installation and/or use of its equipment if not done so in accordance with the appropriate issue and/or amendment of the Technical Manual.

The reader of this Technical Manual should ensure that it is appropriate in all details for the exact equipment to be installed and/or operated. If in doubt, contact Honeywell Analytics for advice.

The following types of notices are used throughout this Technical Manual:

WARNING

Identifies a hazardous or unsafe practice which could result in severe injury or death to personnel.

CAUTION Identifies a hazardous or unsafe practice which could result in minor injury to personnel, or product or property damage.

NOTE: Identifies useful/additional information.

Every effort has been made to ensure the accuracy of this document, however, Honeywell Analytics can assume no responsibility for any errors or omissions in this document or their consequences.

Honeywell Analytics 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/corrections about this document, contact Honeywell Analytics using the contact details given on the back page.

Honeywell Analytics reserve 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 Analytics.



EU Directive 2012/19/EU: Waste Electrical and Electronic Equipment (WEEE)

This symbol indicates that the product must not be disposed of as general industrial or domestic waste. This product should be disposed of through suitable WEEE disposal facilities. For more information about disposal of this product, contact your local authority, distributor or the manufacturer.

3. Introduction

The Sensepoint XCD comprises a gas detector transmitter and a choice of sensors for detecting flammable gas, toxic gas and oxygen. The construction of Sensepoint XCD allows it to be used in hazardous area locations; it may also be used in other areas not classified as hazardous.

The transmitter features a display and three programmable relays for controlling external equipment e.g. alarms, sirens, valves or switches. The transmitter provides an industry standard 3-wire, 4-20 mA source or sink output for connection to a dedicated gas detection control system or PLC.

Calibration and maintenance are carried out using a Magnetic Wand, this allows a single user to undertake routine maintenance without needing to access internal components. Sensepoint XCD is suitable for use in Zone 1 or 2 hazardous areas (International) or Class I Division 1 or 2 area applications (North America).

Sensepoint XCD comprises of the main parts as shown below.

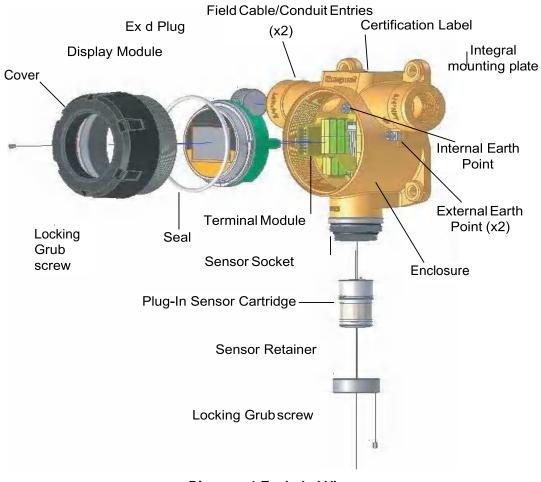


Diagram 1 Exploded View

3.1. Transmitter

The transmitter enclosure has three threaded entries. The two cable/conduit entries either side of the upper part of the transmitter housing are for connecting the power source, signal output and relay contacts to associated signalling equipment. The bottom entry allows direct connection of the sensor socket. There is a mounting plate incorporated into the transmitter housing allowing for various mounting configuration options.

A local LCD provides gas type, concentration, alarm and operating status. The display provides numerical, bar graph and icon information.

Diagnostic information may also be displayed when the transmitter is interrogated using a magnet. The transmitter cover has a glass window which allows use of the Magnetic Wand to activate the three-user interface magnetic switches that are located on the front of the display module. The magnet also enables a non-intrusive, one-man calibration and configuration facility for the Sensepoint XCD Flammable, Toxic and Oxygen Gas sensors

The Sensepoint XCD transmitter is designed to work with a variety of gas sensors for detecting flammable gases. Sensepoint XCD sensors use NDIR infrared and electro-catalytic technologies.

In addition, the Sensepoint XCD transmitter is designed to work with a wide range of toxic gas sensors. Sensepoint XCD sensors for monitoring toxic gas or oxygen use electro-chemical cell (ECC) technology. Oxygen sensors measure Oxygen deficiency and enrichment in the range 0-25 % v/v. They do not measure inertisation.

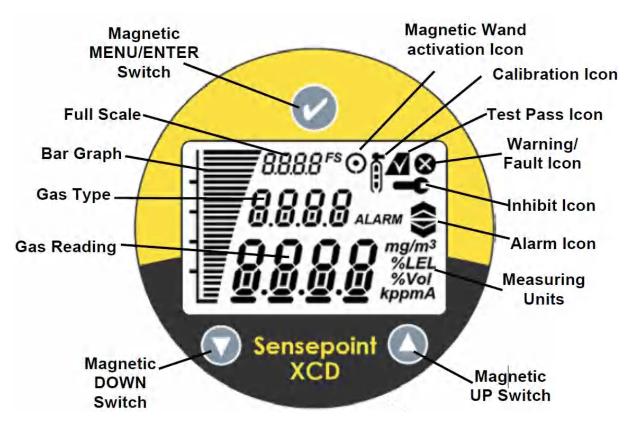


Diagram 2 Sensepoint XCD Display and Magnetic Switches

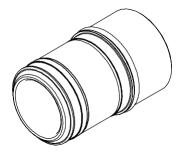
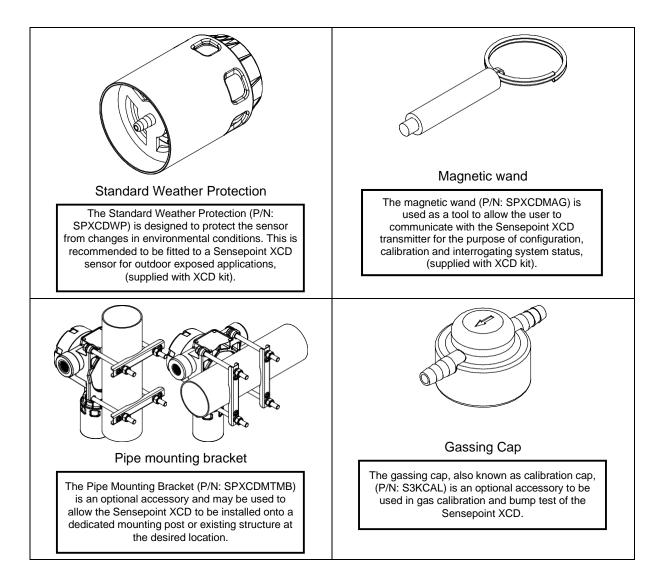
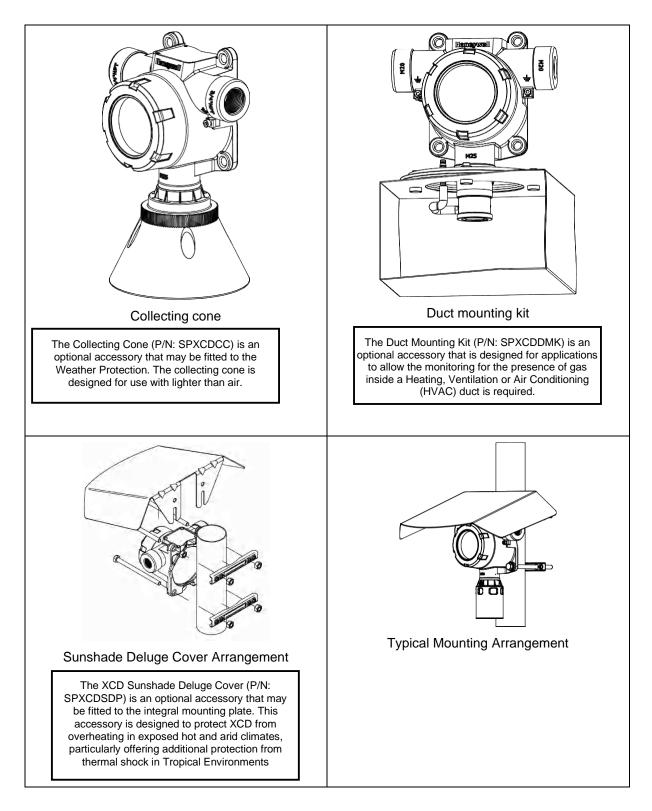


Diagram 3 Sensepoint XCD Flammable, Toxic and Oxygen Sensor Cartridge

3.2. Accessories

A range of accessories are available to allow use of Sensepoint XCD in a wide variety of applications. These including mounting brackets, maintenance tools, weather housings, flow housing, collecting cone, duct mounting kit and sensor junction boxes.





3.3. Options 3.3.1. Modbus®

Note: Modbus[®] option is NOT tested as part of the performance approvals.

The optional Modbus[®] interface is one of the most common field buses in the industry and allows the Sensepoint XCD to connect to a bus of devices and transmit data to PLCs or controllers (see Appendix A). Connections to the Sensepoint XCD are made through a pluggable terminal block on the Modbus[®] interface circuit board. Modbus[®] RTU protocol uses ASCII/Hex protocols for communication. and allows all transmitter/sensor front panel functions to be transmitted using this industrial fieldbus. Modbus[®] protocol is a Master-Slaves protocol. Only one master (at the same time) is connected to the bus and one or up to 32 slave nodes are also connected to the same serial bus. Modbus[®] communication is always initiated by the master. The slave nodes will never transmit data without receiving a request from the master node. The slave nodes will never communicate with each other. The master node initiates only one Modbus[®] transaction at the same time.

Modbus® option is available only for selected gases. Please refer to chapter 14 Ordering information.

To find out if a unit has the Modbus[®] option fitted, look at the part number on the product label. Units fitted with Modbus[®] have the letter 'M' at the end of the part number.

Note: Modbus® is a registered trademark of Schneider Automation Inc.

4. Installation

WARNINGS

Sensepoint XCD is designed for installation and use in Zone 1 or 2 hazardous areas in many countries including Europe and for Class 1 Division 1 or 2 area applications in North America.

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

Access to the interior of the detector, when carrying out any work, must only be conducted by trained personnel.

Before carrying out any work ensure local regulations and site procedures are followed.

Appropriate standards must be followed to maintain the overall certification of the detector.

Care should be taken when removing and refitting the Sensepoint XCD plug-in Sensor to the Sensor Socket so that damage to the connection pins can be avoided.

For installations where conduit is used, and the sensor is mounted directly to the Sensepoint XCD, there must be a 'Seal Fitting' installed for each of the cable gland entries within 18 inches of the Sensepoint XCD. For installations where the sensor will be mounted remotely from Sensepoint XCD, an additional 'Seal Fittings' will be required: One at each of the conduit entries for the power/signal/relay contact outputs and one at the sensor wiring entrance. The total distance of the location of these Seal Fittings is 18 inches. (e.g. If all 3 gland entries are to be used, 3 Seal Fittings should be located, each within 6 inches of the wiring entrance).

If using an anti-seize compound, the threads should be thinly coated with an approved silicone free compound e.g. petroleum jelly.

To reduce the risk of ignition of hazardous atmosphere, de-classify the area or disconnect the equipment from the supply circuit before opening the detector enclosure. Keep assembly tightly closed during operation.

Never attempt to open a junction box/enclosure or replace/refit the sensor in potentially hazardous atmospheres while power is still applied to the transmitter.

The detector must be earthed/grounded for electrical safety and to limit the effects of radio frequency interference. Earth/ground points are provided inside and outside the unit. Ensure that all screens/instrument earth/clean earth wiring is earthed/grounded at a single point (either at the controller or detector - BUT NOT BOTH) to prevent false alarms due to earth/ground loops.

Take care when handling sensors as they may contain corrosive solutions.

Do not tamper with or in any way disassemble the sensor.

Do not expose to temperatures outside the recommended ranges.

Do not expose sensors under storage conditions to organic solvents or flammable liquids.

At the end of their working life, replacement electrochemical sensors for oxygen and toxic gas must be disposed of in an environmentally safe manner. Disposal should be according to local waste management requirements and environmental legislation.

Alternatively, old replaceable sensors may be securely packaged and returned to Honeywell Analytics clearly marked for environmental disposal.

Electrochemical sensors should NOT be incinerated as this action may cause the cell to emit toxic fumes.

Refer to the local or national regulations relative to the installation at the site. For Europe see EN60079-29-2, EN60079-14, EN45544-4 and EN61241-14.

This equipment is designed and constructed as to prevent ignition sources arising, even in the event of frequent disturbances or equipment operating faults.

The sensor head must be fitted with the supplied weather protection and mounted so that the sinter is pointing downward to provide ingress protection IPX6.

The weather protection is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

The transmitter has a potential electrostatic charging hazard. To minimize the risk of electrostatic discharge:

- Ground the transmitter adequately
- Install the transmitter in a manner that will prevent accidental electrostatic discharges, e.g. ensure that objects do not rub against the housing etc.
- · Clean the enclosure with a damp cloth when necessary

The purchaser should make the manufacturer aware of any External effects or Aggressive substances that the equipment may be exposed to.

Note: The control card must have a suitably rated fuse.

4.1. Mounting and location

CAUTION

The location of gas detectors should be made in accordance with any relevant local and national legislation, standards or codes of practice. Always replace sensors with a sensor of the same type.

Gas detectors should be mounted where a potential hazard of gas is most likely to be present. The following points should be noted when locating gas sensors.

When locating detectors consider the possible damage caused by natural events e.g. rain or flooding.

Consider ease of access to the gas detector for functional testing and servicing. Consider how escaping gas may behave due to natural or forced air currents.

Note: The placement of gas detectors should be determined following the advice of experts having specialist knowledge of gas dispersion, experts having knowledge of the process plant system and equipment involved, safety and engineering personnel. The agreement reached on the location of detectors should be recorded.

4.2. Mounting the transmitter

The Sensepoint XCD transmitter has an integral mounting plate consisting of four mounting holes on the transmitter body. The transmitter may be fixed directly to a surface mounting, or to a horizontal or vertical pipe/structure, 40.0-80.0 mm (1.6 to 3.1 inches) in diameter/cross section. The Pipe Mounting Bracket accessory (optional accessory) may be used for this purpose.

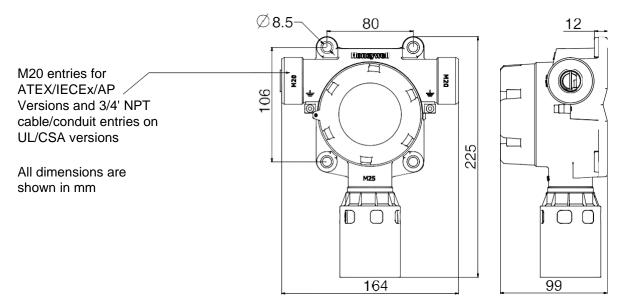


Diagram 4 Outline and mounting dimensions

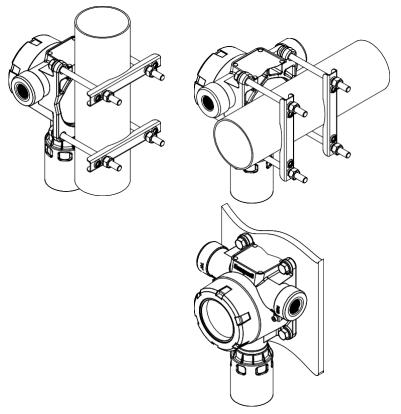


Diagram 5 Mounting arrangements

To mount the Sensepoint XCD transmitter to a Vertical or Horizontal pipe/structure, use the optional Sensepoint XCD Mounting Kit and following procedure:

Fit the four spring washers, then the plain washers to the M8 x 80 mm SS316 bolts.

Pass the four bolts through the four mounting holes of the transmitter housing.

Note: If the Sensepoint XCD sunshade is to be used then fit the sunshade and the two locking bolts and washers to the M8 x 80 bolts.

Place the transmitter housing against the mounting position and fit the two 'U' channel mounting bars the other side of the pipe/structure.

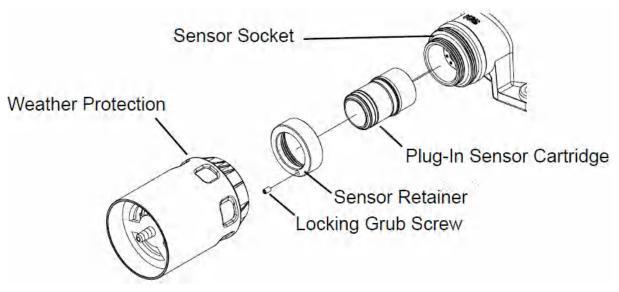
Secure bolts to the threaded holes of the 'U' channel mounting bars.

Tighten the four bolts securely, (but do not over-tighten) until the transmitter housing cannot be moved by hand on its mounting position.

Note: For further details of installation refer to chapter 16.

4.3. Installing the sensor

The XCD gas sensor cartridge plugs into the XCD Sensor Socket.





WARNINGS

Care should be taken when removing and refitting the Sensepoint XCD plug-in Sensor to the Sensor Socket so that damage to the connection pins can be avoided.

If using an anti-seize compound, the threads should be thinly coated with an approved silicone free compound e.g. petroleum jelly.

Take care when handling old sensors as they may contain corrosive solutions.

Take care when removing or replacing the Sensor Retainer as there may be sharp edges present on the adjoining threads.

The equipment is designed and constructed as to prevent ignition sources arising, even in the event of frequent disturbances or equipment operating faults.

The sensor head must be fitted with the supplied weather protection, and mounted so that the sinter is pointing downward to provide ingress protection IPX6.

The weather protection is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

To install the Sensepoint XCD Sensor Cartridge to the transmitter Sensor Socket:

- 1. Remove the weather protection (if fitted) from the sensor.
- 2. Use a 1.5 mm Allen key (hexagonal wrench-included) to loosen the Locking Grub Screw on the Sensor Retainer.
- 3. Unscrew and remove the Sensor Retainer.
- 4. Remove the XCD Sensor Cartridge from its packaging and plug it into the XCD Sensor Socket, taking care to align the sensor pins with the connector.
- 5. Refit the Sensor Retainer and tighten the Locking Grub Screw.
- 6. Refit the weather protection (as required) to the Sensepoint XCD sensor.

5. Electrical connections

WARNINGS

Sensepoint XCD is designed for installation and use in Zone 1 or 2 hazardous areas in many countries including Europe and Class 1 Division 1 or 2 area applications in North America. Installation must be in accordance with the recognized standards of the appropriate authority in the country concerned.

The transmitter has a potential electrostatic charging hazard. To minimize the risk of electrostatic discharge:

• Ground the transmitter adequately

• Install the transmitter in a manner that will prevent accidental electrostatic discharges, e.g. ensure that objects do not rub against the housing etc.

Clean the enclosure with a damp cloth when necessary

Access to the interior of the detector, when carrying out any work, must only be conducted by trained personnel.

Before carrying out any work ensure local regulations and site procedures are followed. Appropriate standards must be followed to maintain the overall certification of the detector.

Care should be taken when removing and refitting the Sensepoint XCD Sensor Cartridge to the Sensor Socket so that damage to the connection pins can be avoided.

For installations where conduit is used, and the sensor is mounted directly to the Sensepoint XCD, there must be a 'Seal Fitting' installed for each of the cable gland entries within 18 inches of the Sensepoint XCD. The total distance of the location of these Seal Fittings is 18 inches. (e.g. If all 3 gland entries are to be used, 3 Seal Fittings should be located, each within 6 inches of the wiring entrance).

If using an anti-seize compound, the threads should be thinly coated with an approved silicone free compound e.g. petroleum jelly.

To reduce the risk of ignition of hazardous atmosphere, de-classify the area or disconnect the equipment from the supply circuit before opening the detector enclosure. Keep assembly tightly closed during operation.

Never attempt to open a junction box/enclosure or replace/refit the sensor in potentially hazardous atmospheres while power is still applied to the transmitter.

The detector must be earthed/grounded for electrical safety and to limit the effects of radio frequency interference. Earth/ground points are provided inside and outside the unit. Ensure that all screens/instrument earth/clean earth wiring is earthed/grounded at a single point (either at the controller or detector - BUT NOT BOTH) to prevent false alarms due to earth/ground loops.

Take care when handling sensors as they may contain corrosive solutions.

Do not tamper with or in any way disassemble the sensor.

Do not expose to temperatures outside the recommended ranges.

Do not expose sensors under storage conditions to organic solvents or flammable liquids.

At the end of their working life, replacement electrochemical sensors for oxygen and toxic gas must be disposed of in an environmentally safe manner. Disposal should be according to local waste management requirements and environmental legislation. Alternatively, old replaceable sensors may be securely packaged and returned to Honeywell Analytics clearly marked for environmental disposal.

Electrochemical sensors should NOT be incinerated as this action may cause the cell to emit toxic fumes.

Refer to the local or national regulations relative to the installation at the site. For Europe see EN60079-29-2, EN60079-14, EN45544-4 and EN61241-14.

5.1. Transmitter Wiring

CAUTION All electrical connections should be made in accordance with any relevant local or national legislation, standards or codes of practice.

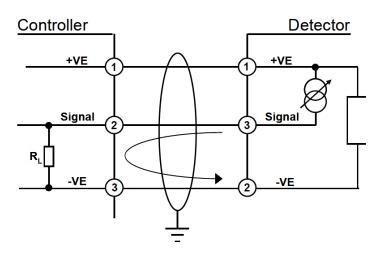


Diagram 7 XCD Source 3 Wire 4-20 mA (Source)

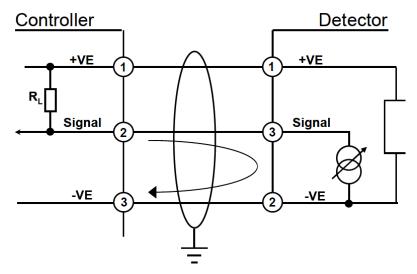


Diagram 8 XCD Sink 3 Wire 4-20 mA (Sink)

The Sensepoint XCD transmitter may be wired in either Current SOURCE or Current SINK configuration. These two options are offered to allow greater flexibility in the type of control system that it can be used with. SOURCE/SINK is selectable via the switch located on the back side of the display module; accessible by removing the display module during installation / commissioning (see chapter 9).

Note: Terminate cable screen at detector or controller, not both.

A 250 Ohm load resistor (RL) is installed in the factory; When connected to controller, this resistor should be removed since controller has a load resistor installed internally.

5.2. Terminal connections

Note: Ensure that none of the wires in the terminal area cause an obstruction when refitting the Display Module. Ensure that the socket on the Display Module is fully engaged in the Display Module Connector on the Terminal Module.

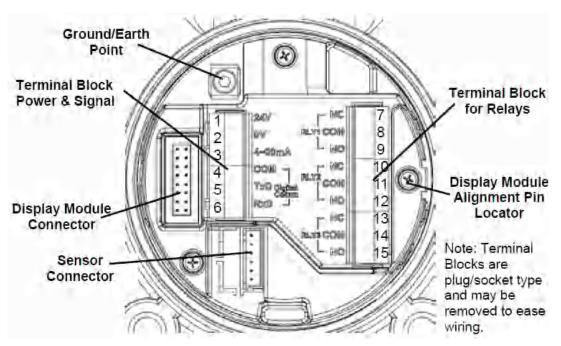


Diagram 9 Terminal module

Terminal Module Networks					
Terminal Number	Terminal Number Marking Connection		Description		
1	24V	+VE Supply			
2	0V	-VE Supply(0VDC)	Controller Connections		
3	4~20mA	Current Output Signal			
4	COM	Drain	Modbus RTU.		
5	TxD	Modbus B (+)	RS485 (Optional)		
6	RxD	Modbus A (-)			
7	RLY1/NC	Normally Closed	Brogrommobile Bolov 1		
8	RLY1/COM	Common	Programmable Relay 1 (Default A1)		
9	RLY1/NO	Normally Open			
10	RLY2/NC	Normally Closed	Brogrommobile Bolov 2		
11	RLY2/COM	Common	Programmable Relay 2 (Default A2)		
12	RLY2/NO	Normally Open			
13	RLY3/NC	Normally Closed	Brogrammable Bolov 2		
14	RLY3/COM	Common	Programmable Relay 3 (Default Fault)		
15	RLY3/NO	Normally Open			

Table 1 Transmitter terminal connection

5.3. Power

The Sensepoint XCD transmitter requires a power supply from the controller of between 12 Vdc and 32 Vdc. Ensure that a minimum supply of 12 Vdc is measured at the sensor, considering the voltage drop due to cable resistance.

The maximum loop resistance in the field cable is calculated as follows:

$$R_{loop} = (V_{controller} - V_{detector min}) / I_{detector}$$

Example:

The controller is supplying a nominal 24 Vdc ($V_{controller}$), the detector minimum allowable voltage is 12 Vdc ($V_{detector min}$), therefore the maximum allowable voltage drop between the controller and detector is 12 Vdc; this means a voltage drop of 6 V in each core (+ve core and -ve core).

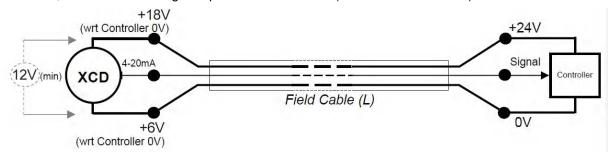


Diagram 10 Power Connection

Power consumption of the detector is 5.0 W. The current required to drive the detector at the minimum voltage is (I = P / V), 5.0 / 12 = 416.7 mA (I detector).

So, the maximum field cable loop resistance (R loop) = 12 / 0.42 = 28.8 Ohms, or 14.4 Ohms per core (allowing for component variations, losses, etc.).

The following tables show the maximum cable distances between the controller and transmitter assuming a voltage drop of 4V in each core and for different cable parameters. The tables are examples only and actual cable parameters and source power supply voltage for the application should be used to calculate the maximum cable distance allowed at the installation site.

Typical cable d	ata	Maximum Cable length (L)**		
Cable size (cross sectional area)	Cable resistance Ω/km (Ω/mi)	Meters	Feet	
0.5 mm ² (20 AWG*)	36.8 (59.2)	391	1284	
1.0 mm ² (17 AWG*)	19.5 (31.4)	738	2421	
1.5 mm ² (16 AWG*)	12.7 (20.4)	1134	3727	
2.0 mm ² (14 AWG*)	10.1 (16.3)	1426	4665	
2.5 mm ² (13 AWG*)	8.0 (12.9)	1800	5894	
*nearest equivalent **example for 24 Vdc supply voltage				

Table 2 Maximum cable distances

5.4. Cabling

CAUTION

All unused and used cable/conduit entries must be sealed with a suitable certified sealing plug and cable gland.

The use of industrial grade, suitably armoured field cable is recommended.

For example, screened 3 cores (plus screen 90 % coverage), suitably mechanically protected copper cable with a suitable M20 explosion-proof gland, or 3/4' NPT steel conduit, with 0.5 to 2.5 mm² (20 to 13 AWG) conductors. Ensure the cable gland is installed correctly and fully tightened. All unused cable/conduit entries must be sealed with a suitable certified sealing plug (one plug is supplied).

5.5. Cable and Earth/Ground regimes

Effective earth/ground bonding is important to ensure good EMC and RFI immunity.

The following diagrams show examples of how to earth/ground bond the cable at enclosures. The same principles apply to conduit installations. These bonding techniques provide good RFI/EMC performance. Earth/ground loops must be avoided to prevent the risk of false signal variation.

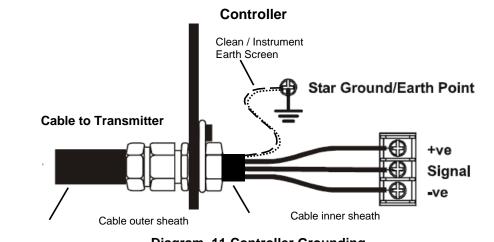


Diagram 11 Controller Grounding

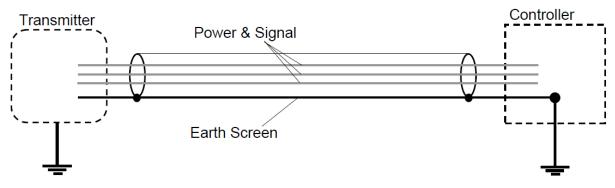
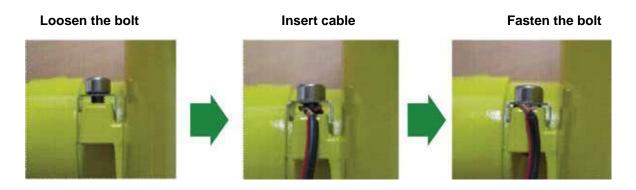


Diagram 12 System grounding

The earth screen of the field cable should be 'tied to Earth' or connected to ground at one point only. It is common practice to adopt a STAR EARTH connection regime where all instrumentation screens are connected at one common point.

The screen at the other end of the cable should be 'parked' or terminated into a blank terminal.

The following diagrams show how to install the wire into the ground screw of the enclosure.



5.6. Ground Terminal Wiring

Internal Ground connection: Utilize the shield of the wiring cable recommended in the wiring instructions. For connection to this terminal. Twist the shield wire to avoid stray shield wires, Loosen the screw sufficiently and wrap the wire around the screw in a 'U' shape. Raise the clamp and place the wire between the clamp and ground base, lower the clamp and tighten the screw to a torque of 6.9 lb-in.

External Ground Connection: If required by local authority, utilize a 4 mm² copper, (Stranded or Solid), wire. Loosen the screw sufficiently to enable 'wrapping the wire around the screw in a 'U' shape. Raise the clamp and place the wire between the clamp and ground base, lower the clamp and tighten the screw to a torque of 10.4 lb-in.

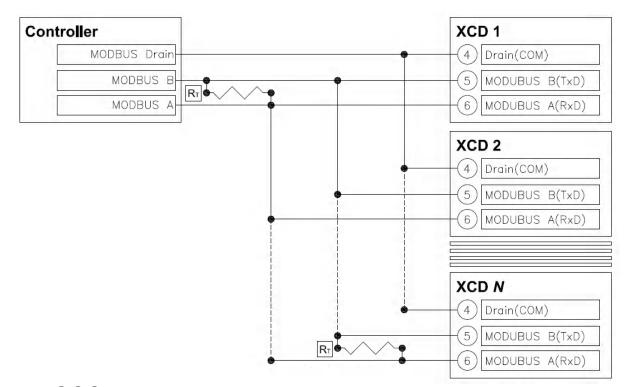
5.7. Modbus RTU Wiring

This is available on Modbus versions only.

Sensepoint XCD supports half-duplex Modbus RTU communications with up to 32 devices using recommended shield twisted pair wire.

Refer to section 12.3.3, Appendix 1 and Appendix 2 for Modbus settings and the Modbus register map.

Туре	Cable Spec	Max Length
Modbus	AWM2464 AWG26~AWG12 Shielded	1,000 meters



Notes 456 refers to the terminal block pin numbers in the Sensepoint XCD terminal module.

Note R_T is a termination resistor (120 Ohm is recommended). A termination resistor at the controller side is not required if it has an internal termination resistor.

6. Default configuration

The Sensepoint XCD transmitter is supplied with the following default configuration.

Function	Value/Setting	Meaning
Sensor Type	Automatic according to Sensor type connected	Sensepoint XCD recognizes the sensor cartridge according to the gas type within its own sensor family i.e. mV, EC or O2.
	≥0.0<1.0 mA	Fault (refer to table 5 chapter 11.3 for details)
Signal output	2.0 mA or 4.0 mA (17.4mA)	Inhibit (during configuration/user settings) For Oxygen, 2.0 mA or 17.4 mA
	4.0 mA to 20.0 mA	Normal gas measurement
	22.0 mA	Maximum over range
	Value is sensor dependent	Lower alarm level
Alarm Relay 1*	De-energized	Energizes on alarm
	Contact Normally Open (NO)	Closes on alarm
	Non-latching	
	Value is sensor dependent	Higher alarm level
Alarm Relay 2*	De-energized	Energizes on alarm
	Contact Normally Open (NO)	Closes on alarm
	Non-latching	
	<1 mA	Detector Fault
Fault Relay**	Energized	De-energizes on alarm
	Contact Normally Open (NO)	Closes on alarm
	Non-latching	
	2.0 mA (default) or 4.0 mA for	Signal output inhibited during menu use.
Inhibit	Toxic and Flammable 2.0 mA (default) or 17.4 mA For Oxygen	If any relay is set to inhibit relay, then inhibit relay will be activated.
		No inhibit timeout. The detector waits for a button
Timeout	Disabled	press before returning to the previous state/setting. Timeout period can be set in 'Configure Inhibit' menu in Configuration Mode.
Password	0000 (Disabled)	0000 (Password disabled). If changed then password is activated.
Location	0000	Optional feature to identify the location or User's
(Tag Number)		'Tag' number of the XCD
Temperature	°C	User selectable between °C or °F
Modbus	ID, baud rates and Parity bit	ID: 1 Baud rates: 19,200 Parity bit : EVEN
Deadband	On	Gas reading is zero if it is within deadband range

Table 3 Default configuration

* Alarm relays automatically reset when reading falls within alarm thresholds. If relay configured to LATCH, then relays must be reset using the Magnetic Wand.

** Fault state (fault relay and analogue output <1 mA) is always non-latching.

Gas Name	Default Range	Lower Alarm	Lower Alarm	Higher Alarm	Higher Alarm
			Туре		Туре
Oxygen	25.0 % v/v	19.5 % v/v	Falling	23.5 % v/v	Rising
Hydrogen Sulfide	50.0 ppm	10.0 ppm	Rising	20.0 ppm	Rising
Carbon Monoxide	300 ppm	100 ppm	Rising	200 ppm	Rising
Hydrogen	1,000 ppm	200 ppm	Rising	400 ppm	Rising
Nitrogen Dioxide	10.0 ppm	5.0 ppm	Rising	10.0 ppm	Rising
Flammable IR	100 % LEL	20 % LEL	Rising	40 % LEL	Rising
Flammable CAT	100 % LEL	20 % LEL	Rising	40 % LEL	Rising
Carbon Dioxide IR	2.00 % v/v	0.40 % v/v	Rising	0.80 % v/v	Rising

For details of how to change the configuration of the Sensepoint XCD refer to chapter 12.

7. Normal Operation

Sensepoint XCD is supplied configured and ready for use according to the 'Default Settings' table shown above. However, these setting may be tailored to a specific application requirement using the Sensepoint XCD configuration menu system.

Access to the Sensepoint XCD transmitter's configuration menus system is via the Magnetic Activation Tool.

7.1. Display Screen

The Sensepoint XCD display features on LCD module with numeric and bar-graph gas concentration data, alpha-numeric warning and status indication, a target for magnetic switch activation and the UP/DOWN/ESC/ENTER zones for non-intrusive configuration. The LCD is also backlit with hi-intensity multi-colour LED indicator to show NORMAL, ALARM and FAULT status.

During normal operation the instrument display shows a steady GREEN backlight.

During Low and High Gas Alarm it displays a flashing RED backlight

During Fault condition the instrument display shows a flashing YELLOW backlight.

The screen is visible through the window of the transmitter's cover. The display shows the gas concentration (both graphically and numerically), range, units, alarm/fault status, etc.

Note: The detector display may become sluggish in sub-zero temperatures and possibly unclear at temperatures below -40 °C, but the detector continues its gas monitoring function. The display is not damaged and recovers when the temperature increases.

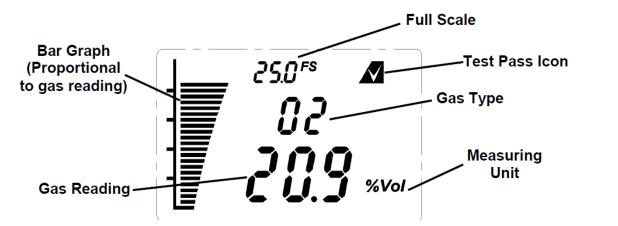


Diagram 13 Example of an O2 Transmitter Display screen – Normal Operation

7.2. System Status

Display indications, current output and relay states for various operational conditions are shown in the following table. For further details of error messages and troubleshooting see chapter 11.3

System Status						
Status	us Display Current Output Relay			Back Light		
			A1	A2	Fault	
Fault: Circuit or sensor error	F-XX fault number with fault icon blinking	0-1.0 mA			~	Yellow, flashing
System Fault	N/A	0-0.15 mA				
Note: In the ev recovery.	ent of processor failure the w	atchdog will autor	matically r	eset the	system	for
Warning	W-XX warning number with fault icon blinking	Dependent on system status				Green Steady
Normal	0.0 Gas concentration	4-20 mA				Green Steady
Alarm 1	Gas concentration. 1 st alarm icon blinking	4-20 mA	~			Red, flashing
Alarm 2	Gas concentration. 2 nd alarm icon blinking	4-20 mA	√ ¹	~		Red, flashing
Over-range	Full scale icon and reading blinking	22 mA	~	√ ²		Red, flashing
Inhibit	Inhibit icon dependent on Menu command. If any relay is set to inhibit relay, then inhibit relay will be activated.	2 or 4 mA depending on configuration Note: 2 or 17.4 mA for Oxygen version				Green Steady

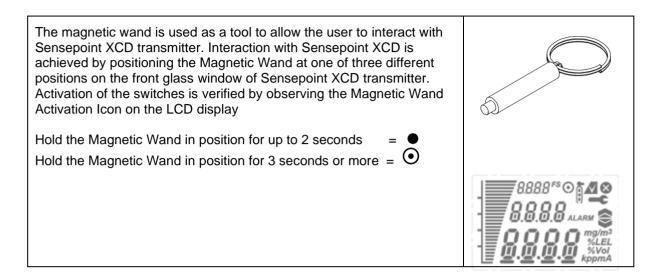
Table 4 System status

Notes:

¹For Oxygen, A1 relay will not be activated because AL1 is configured to activate above 23.5 % v/v (in Rising Alarm configuration).

²For Oxygen, A2 relay will not be activated because AL2 is configured to activate below 19.5 % v/v (in Falling Alarm configuration).

7.3. Magnetic Wand Activation



7.4. Mode Structure

Sensepoint XCD has three operating modes.

- 1. **Monitoring mode** is the normal operating status while Sensepoint XCD measures and displays gas concentration. The fault/warning status is periodically checked, relay contacts are activated according to the configuration.
- 2. **Configuration mode** this mode allows parameters relating to the configuration of the Sensepoint XCD functions to be changed according to specific needs. This mode can be protected by a password mechanism to prevent unauthorized changes being made.
- 3. **Review mode** allows the user to view the current configuration settings.

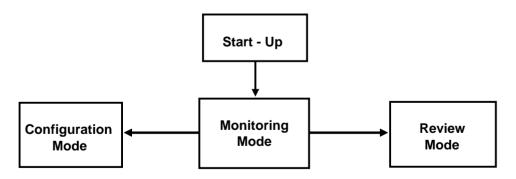


Diagram 14 Mode Structure

Further details of the information available and configuration options for the Sensepoint XCD can be found in chapter 12 of this manual.

8. First time switch on (Commissioning)

WARNING

The following procedure requires the Transmitter Cover to be removed while carrying out supply voltage checks. Therefore, the appropriate permits to work should be sought in preparation.

Prior to carrying out any HOT WORK ensure local and site procedures are followed. Ensure that the associated control panel output actuation is inhibited so as to prevent false alarms.

CAUTION

The following procedure should be followed carefully and only performed by suitably trained personnel.

Note: Calibration is mandatory before the detector can be used for gas monitoring. Refer to chapter 9.1 Calibration for the proper procedure.

- 1. Remove the transmitter housing cover and detach the display unit by lifting the semi- circular handle and pulling the assembly directly away from the termination module (without twisting it)
- 2. Configure the detector's analogue output signal configuration for Current SINK or Current SOURCE operation using the selector switch located on the back of the display module. The default setting is Current SOURCE.
- 3. Check that all electrical connections are terminated correctly as per chapter 5.
- 4. Switch On the external power supply to the transmitter at the safe area gas detection controller (or PLC).
- 5. Using a Digital Multi Meter (DMM), check the Supply Voltage at the terminals 1 (24 V) and 2 (0 V), this should be a minimum supply voltage of 12 Vdc or 16 Vdc depending on the transmitter version (Maximum supply voltage is 32 Vdc)
- 6. Switch Off the external power to the detector.
- 7. Refit the Display Module and Cover.

Note: Ensure that none of the wires in the terminal area cause an obstruction when refitting the Display Module. Ensure that the socket on the Display Module is fully engaged in the Display Module Connector on the Terminal Module.

- 1. Switch On external power to the detector.
- 2. All the display icons/text/numbers are displayed for 3 seconds.



3. A start up sequence will then be displayed, like the one shown in Diagram 15.

Note: For a full description of each screen shown in Diagram 16 refer to chapter 12.4 'Review Mode' of this manual.

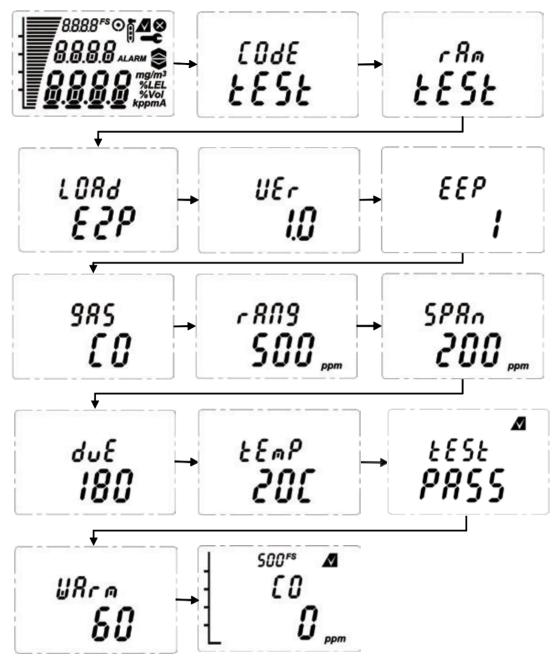


Diagram 15 Normal Start up procedure (For the CO sensor version)

- 1. The warm up countdown of 60 seconds (depending on the gas type) is then displayed.
- 2. Normal **Monitoring Mode** is then resumed.

9. Response Check and Calibration

It is recommended to periodically carry out a gas response check on the Sensepoint XCD to ensure correct operation. This may be done in two ways;

A simple Response Check often referred to as a 'BUMP TEST' is a test using calibration gas applied to the sensor via the nozzle of the Weather Protection or using the Sensepoint XCD Gassing Cap.

If a BUMP TEST is done via the Weather Protection nozzle it may be necessary in windy conditions to increase the flow rate of the test gas by a further 1 l/min, OR, to shelter the weather protection from the wind.

A full gas calibration of the sensor as described in the following section, using ONLY the Sensepoint XCD Gassing Cap (Part No.: S3KCAL).

9.1. Zeroing and span calibration

WARNING

As some calibration gases may be hazardous, ensure that outlets from gassing accessories exhaust safely.

CAUTION

Before initial calibration allow the detector to stabilize for 30 minutes after applying power. When in zeroing and span calibration mode the current output from the detector is inhibited (default 2 mA) to avoid false alarms. For Flammable gas calibration use a calibration gas concentration of between 25 % LEL and 75 % LEL to ensure that the required accuracy can be attained. For Hydrogen Sulfide type sensors refer to chapter 9.2 before conducting zero and span calibration. For toxic sensors use a calibration gas of approximately 50 % FSD.

To calibrate the detector, use an appropriate span gas cylinder, constant flow regulator AND the Sensepoint XCD Gassing Cap (see chapter 3.2). The flow rates used for calibration gas are as follows:

Gas Type	Flow rate (I/min)
Air or N ₂ for Zero	0.5 to 1.0
Flammable CAT	1 to 1.5
O ₂	0.5 to 1.0
H₂S	0.5 to 1.0
CO	0.5 to 1.0
H ₂	0.5 to 1.0
NO ₂	0.5 to 1.0
Flammable IR	0.4 to 0.6
CO ₂ IR	0.4 to 0.6

A compressed air cylinder (20.9 % v/v oxygen) should be used to perform the zero calibration if the area where the detector is located contains any residual amount of the target gas. If no residual gas is present, then the background air can be used to perform the zero calibration. Contact your Honeywell Analytics representative for details of suitable calibration kits.

To calibrate the detector, follow the procedure below.

Note: The Oxygen sensor does not require a zeroing procedure. Background air (20.9 % v/v oxygen) can be used to span the oxygen sensor in place of a compressed air cylinder (20.9 % v/v oxygen). For oxygen sensors only do parts 1-4, 12, 13 (if compressed air cylinder is used), 14-17 and 22 of the procedure below.

9.1.1. Zero Calibration

WARNING

When calibrating the Flammable IR or CO₂ IR sensors, it is essential that the zero calibration is always followed by a span calibration. The zero calibration must never be done alone.

Note: When the Flammable-CAT sensor is replaced, it is necessary to re-initialize the baseline. Select 'InIt bASE' from the menu system.

- 1. If the ambient air is NOT considered reliable to use to set the ZERO, then remove the weather protection and fit the Gassing Cap accessory (see chapter 3.2) onto the sensor and apply a clean source of zero gas or compressed air.
- To access the calibration menu, hold the end of the magnet over the switch located at the top centre of the detector display (✓) for at least 3 seconds and then remove.
- 3. The display will indicate the first configuration mode menu 'SEt CAL'.

- 4. Place the magnet over the ' \checkmark ' switch again and move to enter the Calibration menu.
- 5. The display will show the current gas reading, and the ' $\|$ ' icon flashes.

- 6. When the zero gas reading is stable use ' \checkmark ' to confirm zero calibration.
- 7. If successful the display shows 'ZEro PASS' (if not successful, the display shows 'ZEro FAIL' and returns to configuration mode).



- 8. If using zero-air, turn it off. Zeroing is complete and saved.
- 9. The display shows 'SPAn' with 'YES' flashing.



10. If span calibration is required use '✓' proceed to the next step. If span calibration is not required, use '▲▼' to select 'No' and '✓' to return to configuration mode.

WARNING

When calibrating the Flammable IR or CO₂ IR sensors, it is essential that the span calibration is done after a zero calibration.

9.1.2. Span Calibration

 The display shows the current calibration span gas concentration while flashing the ' i con. Use '▲▼' to change the calibration span gas concentration, and '✓' when required span calibration level is set.

2. The display will show the current gas reading, and the 'i' icon flashes.

- 3. Connect the regulator to the span gas cylinder.
- Apply the span gas to the sensor using the Sensepoint XCD Gassing Cap (see chapter 3.2 for description). The live gas reading is displayed. When the reading is stable, use '✓' to confirm span calibration.
- 5. If the sensor has been replaced the following display may be shown.



- 6. Use ' $\blacktriangle \nabla$ ' to select 'YES' if the sensor has been replaced or 'No' if it has not been replaced.
- 7. If the span calibration is successful, the instrument will briefly display 'SPAn PASS' (if fails 'SPAN FAIL' displayed and returns to configuration mode).

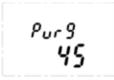
Note: the calibration due warning counter is reset after a successful calibration. See chapter 12.2 for further details of setting a calibration due warning.



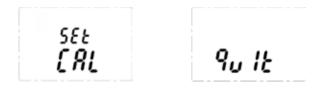
1. The display alternates between 'Purg gAS' and the gas reading to indicate that the unit is expecting the span gas to be removed from the sensor.



- 2. Promptly switch off the calibration span gas and remove the Sensepoint XCD Gassing Cap from the sensor to allow the gas to disperse.
- 3. When the reading falls below 50% of the calibration gas level the display indicates a countdown (up to 180 seconds dependent on gas type).



- 4. When the countdown is finished, the calibration procedure is complete.
- 5. The instrument returns to the 'Set CAL' menu. Activate the '▲' or '▼' switch to select another menu or select 'QuIT' to return to normal monitoring mode.



Note: Remember to always replace the Weather Protection and other accessories.

9.2. Zeroing and span calibration of Hydrogen Sulfide sensors

Hydrogen Sulfide sensors can be affected by extreme humidity changes. A sudden increase in ambient humidity can result in a short-term positive drift in the instrument's reading. A sudden decrease in ambient humidity can result in a short-term negative drift in the instrument's reading. These are most likely to be noticed during calibration with dry or cylinder gas.

When calibrating Hydrogen Sulfide cartridges, the following should be considered while following the procedure in 10.1:

1. To zero the sensor, use a compressed air cylinder of 20.9 % v/v oxygen (not Nitrogen). Do not use background air.

Apply the gas to the sensor for three minutes before using ' \checkmark ' to confirm the zero calibration.

- 2. If a span calibration is to be performed, the span calibration gas should be applied to the sensor immediately after the zeroing procedure. Do not allow the sensor to return to ambient air conditions between steps 2 and 3.
- 3. Apply the span gas for two minutes before using ' \checkmark ' to confirm the span calibration.

10. General Maintenance

WARNINGS

Access to the interior of the transmitter, when carrying out any work, must only be conducted by trained personnel.

The transmitter has a potential electrostatic charging hazard. To minimize the risk of electrostatic discharge:

Ground the transmitter adequately

• Install the transmitter in a manner that will prevent accidental electrostatic discharges, e.g. ensure that objects do not rub against the housing etc.

Clean the enclosure with a damp cloth when necessary

Care should be taken when removing and refitting the Sensepoint XCD plug-in Sensor.

Cartridge to the Sensor Socket so that damage to the connection pins can be avoided.

Before carrying out any work ensure local regulations and site procedures are followed. Appropriate standards must be followed to maintain the overall certification of the sensor and transmitter.

To reduce the risk of ignition of hazardous atmosphere, de-classify the area or disconnect the equipment from the supply circuit before opening the transmitter enclosure. Keep assembly tightly closed during operation.

Never attempt to open a junction box/enclosure or replace/refit the sensor in potentially

hazardous atmospheres.

Take care when handling sensors as they may contain corrosive solutions.

Do not tamper with or in any way disassemble the sensor.

Do not expose to temperatures outside the recommended ranges.

Do not expose sensors under storage conditions to organic solvents or flammable liquids.

At the end of their working life, replacement electrochemical sensors for oxygen and toxic gas must be disposed of in an environmentally safe manner. Disposal should be according to local waste management requirements and environmental legislation.

Alternatively, old replaceable sensors may be securely packaged and returned to Honeywell Analytics clearly marked for environmental disposal.

Electrochemical sensors should NOT be incinerated as this action may cause the cell to emit toxic fumes.

Honeywell Analytics recommends that gas detectors are tested and re-calibrated on a six-monthly basis, or according to site practice. For remote Flammable or Toxic sensors used with the XCD Transmitter, refer to the individual sensor manuals for specific recommended calibration periods. If a toxic sensor is exposed to a gas concentration significantly above the measuring range, it shall be calibrated as soon as possible afterwards.

10.1.Operational Life

The pellistors fitted in the Flammable Catalytic sensors are poison resistant to maximize the operational life of the sensor, however they can suffer from a loss of sensitivity when in the presence of poisons or inhibitors, e.g. silicones, sulfides, chlorine, lead or halogenated hydrocarbons. A typical operating life, subject to the presence of poisons/inhibitors is 36 months.

The NDIR (infrared) flammable gas sensor is not affected by the above-mentioned poisons and therefore, has a longer life span. A typical operating life is 5 years.

The typical life of a toxic gas sensor is dependent on the application, frequency and amount of gas exposure. Under normal conditions (3 monthly visual inspection and 6 monthly test/re- calibration), the Sensepoint XCD Oxygen and other toxic sensors have an expected life equal to or greater than 24 months.

Refer to chapter 11.1 for sensor replacement procedures.

CAUTION Oxygen deficient atmospheres (less than 6 % v/v) may result in inaccuracy of reading and performance.

11. Servicing

WARNINGS

Take care when handling sensors as they may contain corrosive solutions. Do not tamper or in any way dis-assemble the sensor. Do not expose to temperatures outside the recommended range. Do not expose sensor to organic solvents or flammable liquids.

Care should be taken when removing and refitting the Sensepoint XCD plug-in Sensor Cartridge to the Sensor Socket so that damage to the connection pins can be avoided.

At the end of their working life, replacement electrochemical sensors for oxygen and toxic gas must be disposed of in an environmentally safe manner. Disposal should be according to local waste management requirements and environmental legislation. Alternatively, old replaceable sensors may be securely packaged and returned to Honeywell Analytics clearly marked for environmental disposal.

Electrochemical sensors should NOT be incinerated as this action may cause the cell to emit toxic fumes.

CAUTION

The following procedure should be followed carefully and only performed by suitably trained personnel.

A fault condition will be signaled by the detector if the sensor is removed with the unit under power.

11.1.Sensor replacement

The Flammable Catalytic and Toxic ECC sensor cartridges that are used with the Sensepoint XCD Sensor Socket have no serviceable parts. When they have reached the end of their operational life, simply replace the sensor cartridge.

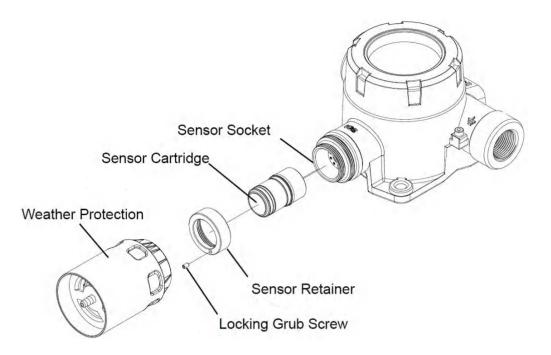


Diagram 16 Sensor Replacement

To replace the Sensepoint XCD plug-in sensor cartridge use the following procedure:

- 1. Important: Remove the Power from the Sensepoint XCD Transmitter
- 2. Remove the Weather Protection or other accessories from the sensor socket thread
- 3. Loosen the Locking Grub Screw and unscrew the Sensor Retainer
- 4. Carefully pull the old Sensor from the sensor socket without twisting
- 5. Fit the new Sensor in its place
- 6. Calibrate sensor

WARNING

Ensure that the same Gas Type and Range of Sensor is fitted in place of the old Sensor. Care should be taken when removing and refitting the Sensepoint XCD plug-in Sensor Cartridge to the Sensor Socket so that damage to the connection pins can be avoided.

The sensor head must be fitted with the supplied weather protection, and mounted so that the sinter is pointing downward to provide ingress protection IPX6.

The weather protection is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

11.2.Replacing Modules within the Transmitter

Two replaceable module assemblies are located within the transmitter housing. The Display Module and the Terminal Module.

The Display Module is simply removed by unplugging it from the Terminal Module (this procedure is done during normal installation).

To replace the Terminal Module, use the following procedure:

1. Unscrew and remove the Transmitter Cover

2. Lift the handle and un-plug and remove the Display Module.

- 3. Unplug the connection terminals and lift them clear of the Terminal Module.
- 4. Unplug the connector for the sensor.
- Loosen and remove the three 'cross-headed' screws that secure the Terminal Module to the Transmitter housing.
- 6. Carefully lift the Terminal Module from the transmitter housing.
- 7. Fit the new Terminal Module using the above procedure in reverse order.











11.3.Faults and Warnings

The table below provides details of possible error.

Message	Description	Action					
W-01	Calibration needed	The unit has not been calibrated for the configured calibration interval Calibration is necessary due to change of sensor/gas type					
W-02	Transmitter Temperature limits exceeded	Use ' \checkmark ' to clear when within limits					
W-03	Alarm setting needs to be configured	Re-configure alarm settings such that upper alarm should not exceed user configured scale					
W-04*	Over-range warning	Use ' \checkmark ' to clear when within limits					
W-05*	The sensor is switched off to prevent it from being deteriorated	Make sure that there is no flammable gas in the air and use ' \checkmark ' to clear when within limits					
F-01	Internal I2C failure	Cycle power to detector. Replace detector					
F-02	Cell failure	For Toxic, replace sensor For Flammable/IR, cycle power to detec Replace sensor					
F-03	Significant zero drift	Re-zero/calibrate					
F-04	Unexpected sensor fitted	Replace sensor					
F-05	EEPROM is corrupted	Reset transmitter. If fault still appear, replace transmitter					
F-06	Low supply voltage	Reset transmitter. If fault still appear, replace transmitter					
F-07	SRS processor failure	Reset transmitter. If fault still appear, replace transmitter					
F-08	RAM read/write fault	Reset transmitter. If fault still appear, replace transmitter					
F-09	Info. memory corrupted	Reset transmitter. If fault still appear, replace transmitter					
F-10	Code Memory corrupted	Reset transmitter. If fault still appear, replace transmitter					
F-11	DAC output failure	Check load resistor or sink/source mode switch was configured properly					
F-12	Heater failure	Reset transmitter. If fault still appear, replace transmitter					
F-13	Supplied voltage failure	Check supply voltage. Replace detector					

Table 5 Fault and Warning List

Note: W-04 and W-05 are only for flammable catalytic bead sensors. For other gases, gas reading will blink on the LCD instead of the over-range warning.

12. Menu and Advanced Configuration

12.1.Abort Function

In Review Mode or Configuration Mode the user can escape one step back from the current position using the Abort Function. To do this the user must activate the Enter switch for more than 3 seconds with the Magnetic Wand. Switching between each pair of modes or between menus and sub menus are shown in the following table.

From	То	Example
Review Mode	Monitoring Mode	Activate Enter switch for more than 3 seconds while in Review Mode
Configuration Mode	Monitoring Mode	Activate Enter switch for more than 3seconds while navigating menus in the Configuration Mode
Configuration Mode sub menu	Configuration Mode main menu	Activate Enter switch for more than 3 seconds while in a sub menu

Table 6 Transmitter menu switching

12.2.Configuration Mode

The table below shows the functions available via the configuration menu that can be displayed on the transmitter and accessed using the Magnetic Wand.

The instrument will show the main Menu when the 'Enter' switch is activated with the Magnetic Wand and held for at least 3 seconds.

The Menu is password protected to prevent any unauthorized changes. The password is initially disabled, and the default password is '0000'. If the default password is changed to other than '0000', then the password is enabled automatically and requested when entering Configuration Mode.

With the Menu showing, the following functions can be performed: calibration, bump test, sensor selection and configuration of parameters such as measuring range, calibration gas level, calibration interval, inhibit current, inhibit timeout, alarm setting, relay setting, password change, location setting, temperature unit reading, force analogue output and alarm function checks.

While in Configuration mode, the output current of the transmitter is inhibited to prevent false alarms. Names, displays and descriptions for each menu item in Configuration Mode are shown in the following table.

Menu	Display	Description
Set Calibration	see [RL	Execute zero/span calibration Set calibration gas level After zero, the option exists to proceed with span calibration, or return to the Menu
Initialize Baseline Note 3	10 1E 685E	Perform a baseline initialization (flammable-CAT versions only)
Select Sensor Note 3	SENS	Select the type of sensor from the sensor list. This menu is only available for flammable / IR sensor
Select Gas Note 3	5EE 985	Select the type of gas from the list. This menu is only available for flammable / IR sensor.
Set Range	see r Rng	Set measuring range
Configure Inhibit Note 1	Conf Inhb	Select inhibit current Set timeout option (5 minutes increments)
Set Password	PRSS	Enable/disable password Set password Default – no password (Select '0000')
Set Calibration Interval	CRL Int	Set calibration interval, 30 to 365 days User configurable option to display warning
Bump Test	ьилР ЕЕБЕ	Execute a 'bump' test to check gas response of the sensor.
Force Current	forc Curr	Force analogue output to test functionality of GD control system during system commissioning
Set Alarms Note 2	588 86 r m	Set alarm 1, alarm 2 levels, functionality and operation (none/falling/rising)
Set Relays Note 2	588 r l y	Set relay 1,2,3 type (alarm 1, alarm 2, fault and inhibit) and action (energized/de-energized)

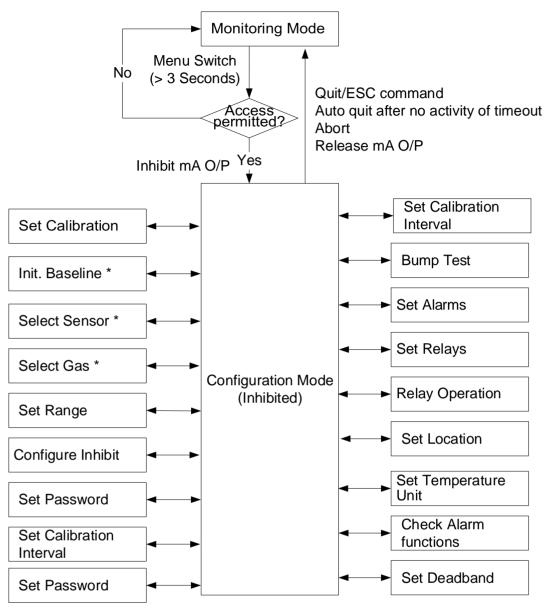
Relay Operation Note 2	0Pr	Configure relay on delay time, relay off delay time and latch/non-latch
Set Location	5εε ίος	Set location (or TAG number)
Set Temperature Unit	εε»Р Un IL	Change temperature display unit. °C (Celsius) or °F (Fahrenheit)
Check Alarm functions	<i>t</i> ESt RL гм	Simulate alarm situation to check the alarm system without gas present at the sensor
Set deadband	_{SEE} dERd	Enable or disable the display deadband
Quit	9u 1E	Return to Monitoring mode

Table 7 Transmitter menu descriptions

Note 1: To comply with IEC EN 60079-29-1 and EN 50104, if the Inhibit current is set to 4 mA, the timeout option must be set. The maximum value for the timeout is 15 minutes.

Note 2: To comply with IEC EN 60079-29-1 and EN50104, the alarms must be configured as latching by setting the corresponding relay to latching, even if the relay is not being used. If relays are used the action must be configured as 'energized' for fail safe operation.

Note 3: 'Init. Baseline', 'Select Sensor' and 'Select Gas' are available for flammable/IR sensors only.





Note: 'Init. Baseline', 'Select Sensor' and 'Select Gas' menus are available for flammable/IR sensors only.

12.2.1. Configuration mode operation table

Configuration mode allows the user to perform calibration and configure parameters such as full-scale range, calibration gas level, calibration interval, inhibit current & timeout, alarm settings, relay settings, set a password, etc. To activate Configuration mode, hold the magnet over the ENTER switch for at least 3 seconds and then remove. Configuration mode can be password protected to prevent unauthorized personnel from changing parameters. Initially the password is set to '0000' meaning it is disabled. While in Configuration mode, the output current of the detector is inhibited to prevent false alarms.

Use the table below to help navigate the menus and make configuration changes. The menus are shown in the left-hand column. Use

▲▼ to select the required menu and '✓' to enter. Follow the information and instructions in the table from left to right from the required menu.

	οк	▲▼	οк	▲ ▼	OK	▲ ▼	οк	▲▼
SEt CAL ¹	~	GAS NAME, ZERO CONCENTRATION AND FLASHING () ICON DISPLAYED. APPLY ZERO GAS AND USE 'V' WHEN READING IS STABLE. 'ZEro PASS' DISPLAYED IF OK, 'ZEro FAIL' IF NOT	Ŷ	'SPAN' DISPLAYED AND 'YES' FLASHING TO ASK IF YOU NOW WANT TO PERFORM SPAN CALIBRATION. USE '√' TO PROCEED OR USE ▲▼ TO SELECT 'No' AND RETURN TO MENU MODE.	\checkmark	'GAS' TARGET CONCENTRATION FLASHING AND I ICON DISPLAYED. USE ▲▼ TO CHANGE GAS CONCENTRATION AND '√' TO START SPAN CALIBRATION.	~	GAS NAME, CURRENT CONCENTRATION AND FLASHING () ICON DISPLAYED. APPLY SPAN GAS AND USE '~' WHEN READING STABLE. IF OK 'PASS' & 'PurG' DISPLAYED (IF FAIL 'SPAN FAIL' DISPLAYED AND RETURNS TO MENU). REMOVE SPAN GAS. WHEN READING <50% OF SPAN POINT, COUNTDOWN BEGINS & UNIT RETURNS TO MENU MODE.
Inlt ² bASE	~	'Init bASE" DISPLAYED AND RETURN TO MENU MODE WHEN COMPLETED	~					
SEL ² SENS	~	'SEnS' DISPLAYED WITH SENSOR TYPE DISPLAYED. USE ▲▼ TO SELECT DIFFERENT SESNOR.	~	IF SENSOR TYPE IS CHANGED, 'CAL YES' DISPLAYED TO ASK IF YOU NOW WANT TO PERFORM CALIBRATION. USE '√' TO PROCEED OR USE ▲▼ TO SELECT 'No' AND RETURN TO MENU MODE.	~			
SEL 9AS ²	~	'9AS' DISPLAYED WITH GAS TYPE DISPLAYED. USE ▲▼ TO SELECT DIFFERENT GAS.	~	IF GAS TYPE IS CHANGED, 'CAL YES' DISPLAYED TO ASK IF YOU NOW WANT TO PERFORM CALIBRATION. USE '√' TO PROCEED OR USE ▲▼ TO SELECT 'No' AND RETURN TO MENU MODE.	~			
SEt rAn9	~	BAR GRAPH INDICATING CURRENT RANGE, 'rAn9' DISPLAYED & CURRENT RANGE FLASHES. USE ▲▼ TO SELECT DIFFERENT RANGE	~	IF RANGE IS CHANGED, 'CAL' DISPLAYED AND 'YES' FLASHING TO ASK IF YOU NOW WANT TO PERFORM CALIBRATION. USE '+' TO PROCEED OR USE ▲▼ TO SELECT 'No'.	\checkmark	IF RANGE IS CHANGED, 'ALrm' DISPLAYED AND 'YES' FLASHING TO ASK IF YOU NOW WANT TO MODIFY ALARM SETTINGS. USE '√' TO PROCEED OR USE ▲▼ TO SELECT 'No' AND RETURN TO MENU MODE.	~	UNIT RETURNS TO MENU MODE
ConF Inhb⁴	~	'Inhb' DISPLAYED WITH '■C ' ICON FLASHING. CURRENT INHIBIT MA VALUE FLASHES. USE ▲▼ TO SELECT NEW VALUE (2 OR 4mA TOXICS, OR 2 OR 17.4mA OXYGEN VERSION).	~	'tImE' DISPLAYED WITH ' -€ ' ICON. FLASHING CURRENT INHIBIT TIMEOUT PERIOD (MINUTES) FLASHES. USE ▲▼ TO SET NEW TIMEOUT. (IF SET TO 0 OUTPUT IS PERMANENTLY INHIBITED)	>	UNIT RETURNS TO MENU MODE		
SEt PASS	~	'PASS' DISPLAYED WITH FIRST DIGIT PLACE ICON OF THE PASSCODE FLASHING. USE ▲TO SELECT 1 ST DIGIT OF CURRENT PASSWORD. USE ▼TO MOVE TO NEXT DIGIT AND SET REST OF PASSCODE.	~	UNIT RETURNS TO MENU MODE				

¹ Refer to chapter 9.1 for detailed zero and span calibration procedures. A detector fitted with an oxygen sensor will skip the zeroing procedure. Re-calibrate the detector if left un-powered for periods more than 24 hours.

	ок		ок	▲ ▼	ок	▲ ▼	ок	▲▼
9ult	✓	QUITS MENU MODE AND RETURNS TO MONITORING MODE						
Set dEAd	~	'dEAd DISPLAYED 'On/OFF' SETTING FLASHING. USE ▲▼TO CHANGE TO REQUIRED DEADBAND SETTING	~					
tESt ALrm	~	'Forc' DISPLAYED and 'AL1' FLASHING TO SELECT TEST-REQURED ALARM. USE '√' TO FORCE ALARM1.	~	GAS NAME, CURRENT GAS CONCENTRATION DISPLAYED AND 'C ICON AND AL ICON FLASHE.	~	UNIT RETURNS TO MENU MODE		
tEmP Unlt	~	'tEmP' DISPLAYED WITH ' ⁰ C' OR ' ⁰ F' FLASHING. USE ▲▼ TO CHANGE TO REQUIRED TEMPERATURE UNIT.	~	UNIT RETURNS TO MENU MODE				
Set Loc	>	Loc' DISPLAYED WITH FIRST 4 CHARACTERS OF THE LOCATION STRING. USE ▼ TO CHANGE THE 1ST CHARACTER OF CURRENT LOCATION STRING. USE ▲ TO MOVE TO NEXT CHARACTER AND SET REST OF STRING. MAXIMUM 12 CHARACTERS CAN BE SET.	~	'Loc' DISPLAYED NEW LOCATION STRING. THE STRING MOVES RIGHT-TO-LEFT TO SHOW WHOLE CHARACTERS TWICE. THEN UNIT AUTOMATICALLY RETURNS TO MENU MODE.				
rlY OPr ⁵	~	'rLY', 'ON' DISPLAYED AND CURRENT RELAY-ON TIME FLASHES. USE ▲▼ TO CHANGE TO REQUIRED RELAY-ON DELAY.	~	'rLY', 'OFF' DISPLAYED AND CURRENT RELAY-OFF TIME FLASHES. USE ▲▼ TO CHANGE TO REQUIRED RELAY-OFF DELAY.	~	'Ltch' DISPLAYED AND 'YES' or '№' FLASHES. USE ▲▼ TO CHANGE TO REQUIRED LATCH OPTION.	~	UNIT RETURNS TO MENU MODE
	~	'rL3' DISPLAYED AND 'AL1', 'AL2', 'Inht' or 'FLt' FLASHES. USE ▲▼ TO CHANGE TO REQUIRED RELAY TARGET.	~	'rL3' DISPLAYED AND 'dEEn' or 'Enr9' FLASHES. USE ▲▼ TO CHANGE TO REQUIRED RELAY ACTION.	~	UNIT RETURNS TO MENU MODE		
Set rLY⁵	>	REQUIRED RELAY TARGET. REQUIRED RELAY ACTION.		~	'RI2' DISPLAYED AND 'AL1', 'AL2', 'Inht' or 'FLt' FLASHES. USE ▲▼ TO CHANGE TO REQUIRED RELAY TARGET.	~	'rL2' DISPLAYED AND 'dEEn' or 'Enr9' FLASHES. USE ▲▼TO CHANGE TO REQUIRED RELAY ACTION.	
SEt ALrm	~	'AL1', ICON DISPLAYED AND CURRENT ALARM LEVEL 1 CONCENTRATION FLASHES. USE ▲▼ TO CHANGE TO REQUIRED CONCENTRATION LEVEL.	~	'AL1' DISPLAYED WITH 'NonE', 'rISE' OR 'FALL' FLASHING. USE ▲▼ TO SELECT REQUIRED ALARM ACTION.	~	'AL2', ICON DISPLAYED AND CURRENT ALARM LEVEL 2 CONCENTRATION FLASHES. USE ▲▼ TO CHANGE TO REQUIRED CONCENTRATION LEVEL.	~	'AL2' DISPLAYED WITH 'NonE', 'rISE' OR 'FALL' FLASHING. USE ▲▼ TO SELECT REQUIRED ALARM ACTION AND USE '√' TO RETURN TO MENU MODE.
bumP tESt	~	PEAK READING DISPLAYED WITH OUTPUT INHIBITED ' C ' ICON AND PEAK STRING FLASHING. APPLY BUMP TEST GAS AND CHECK PEAK READING ON DISPLAY.		CURRENT GAS CONCENTRATION DISPLAYED WITH OUTPUT INHIBITED	~	UNIT RETURNS TO MENU MODE WARNING: DO NOT RETURN TO NORMAL MODE UNTIL CURRENT GAS CONCENTRATION HAS FALLEN BELOW A1 LIMIT OR THE DETECTOR WILL GIVE AN ALARM		
CAL Int3 ³	~	'Int' DISPLAYED WITH CURRENT CALIBRATION INTERVAL FLASHING. USE ▲▼ TO CHANGE INTERVAL.	~	'duE' DISPLAYED AND 'No', 'LCd' OR 'ALL' FLASHING. USE ▲▼ TO SELECT REQUIRED CAL DUE WARNING OUTPUT.	~	UNIT RETURNS TO MENU MODE		
Forc Curr	~	'Forc' DISPLAYED WITH '■C' ICON. DEFAULT FORCE CURRENT '4.00' FLASHES. USE ▲▼ TO CHANGE TO REQUIRED mA LEVEL.	~	UNIT TRANSMITS THE CURRENT IF YOU WANT TO EXIT FROM THIS MENU, USE ABORT FUNCTION				

² This menu is only available and visible when the unit is fitted with flammable/IR sensor.

³ The calibration due warning counter is automatically reset after a successful calibration. ⁴ To comply with IEC EN 60079-29-1 and EN 50104, if the Inhibit current is set to 4 mA, the timeout option must be set. The maximum value for the timeout is 15 minutes.

⁵ To comply with IEC EN 60079-29-1 and EN50104, the alarms must be configured as latching by setting the corresponding relay to latching, even if the relay is not being used. If relays are used the action must be configured as 'energized' for fail safe operation.

12.3.Sensor / Gas Selection

Note: This Configuration option is not available for Sensepoint XCD units with EC sensors.

12.3.1. Sensor Selection

'Select Sensor' sets the identity of the type of mV sensor attached to the Sensepoint XCD when it does not detect the sensor type automatically. When the sensor type is detected by Sensepoint XCD automatically, the current sensor type can be confirmed in this menu.

The available mV sensors are as follows:

lr-1	NDIR Infrared CO ₂ 0-2 % v/v
lr-3	NDIR Infrared Methane 0-100 % LEL
lr-4	NDIR Infrared Propane 0-100 % LEL
Cb-1	Catalytic 0-100 % LEL

12.3.2. Gas Selection

Use 'SEL gAS' to set the target gas for sensors capable of detecting multiple gases. The available gases are as follows:

Sensor type	Gas type	Gas Name displayed
lr-1	CO ₂	CO ₂
lr-3	mEt	mEt
lr-4	Propane	PrO
Cb-1	Propane Str1 to Str8	FLM

Gas selection is dependent on the type of sensor attached to the Sensepoint XCD. If Ir-1/Ir-3/Ir-4 sensor is attached, then gas type is detected by the Sensepoint XCD automatically (for example CO_2 /mEt/ProP). When a type Cb-1 sensor is attached to the Sensepoint XCD, a user can select the gas from Str1 (1*) to Str8 (8*). For more information on star rating, refer to chapter 18.2.

Note: For standard calibration (calibration gas = target gas) the following parameters are to be used:

Methane Star Rating 6* Gas Str 6100 % LEL = 4.4 % v/v

Propane Star Rating 5* Gas Str 5100 % LEL = 1.7 % v/v

The current configuration of the XCD is displayed and by using the ' \checkmark ' switch to enter 'SEL gAS' menu. To select a flammable gas, use ' \blacktriangle V' to move through the list, then use ' \checkmark ' to make the selection or abort function to discard the selection and return to menu mode.

If type of gas is changed, calibration prompt will appear to ask if you want to perform calibration.

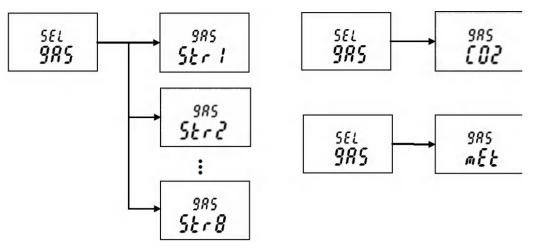


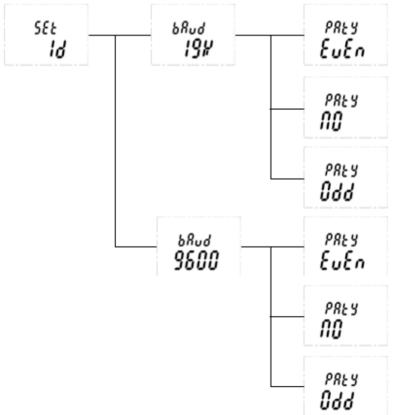
Diagram 18 Gas Selection

12.3.3. Set Modbus

Set id->Set Modbus slave ID->Set Baud rate->Set Parity

- 1. Slave ID shall be set 1~247
- 2. Baud rate setting 9600 or 19200
- 3. Parity setting (No, Even, Odd)

From the Configuration Mode screen, select ' \checkmark '. To set the Modbus Slave ID, use the up-down ' $\blacktriangle \nabla$ 'switches to move to the desired position and use ' \checkmark ' to select it. Again, using the ' $\blacktriangle \nabla$ 'switches, increment or decrement the value until the desired value appears, selects the value and moves to the next setting.



The communications baud rate and Parity Setting can also be set from this screen by using the ' $\blacktriangle \nabla$ ' switches to navigate to the baud rate display then selecting ' \checkmark '. Using the ' $\blacktriangle \nabla$ 'switches, highlight the proper baud rate or parity setting and select ' \checkmark '. Default is Slave ID 1, 19200bps and even parity.

Note: The 'Set ID' menu is available only for Sensepoint XCD equipped with Modbus option.

12.4.Review Mode

The instrument will enter Review mode when the 'Enter' switch is activated with the Magnetic Wand and held for around one second.

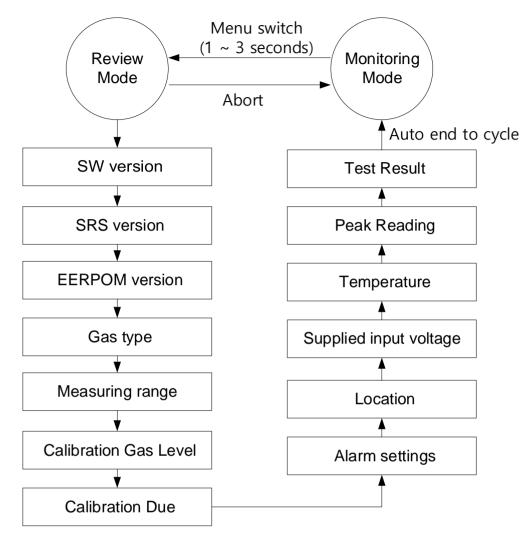
Names, displays and descriptions for each review item in Review Mode are shown in the following table.

Item name	Display	Description						
Software version	UEr I	S/W version of transmitter						
SRS version	5r5 1	S/W version of SRS (watch dog)						
EEP version	εερ Ι	EEPROM parameter version						
Gas	⁹⁸⁵ []	Gas type						
Measuring range	⁶⁸⁰⁹ 300 m	A user selected measuring range						
Calibration level	5PRn 200 pm	Calibration gas level						
Calibration due	80	Estimated time to next calibration						
Alarm 1	500 ^{rs} - 8L Ialarm ⇒ - 100 _{ppm}	RL I rISE Alarm settings for Alarm 1						
Alarm 2	500 ^{ге} ЯЦ 2 лілям Э 200 ррт	Alarm settings for Alarm 2						
Location	٥٥٥٥	Location in which the transmitter is installed						

Item name	Display	Description
Power	24.00	Power voltage*
Temperature	εε _ω ρ 20 [Internal Transmitter temperature* Maximum
Peak conc.	РЕЯН Д _{ррт}	Maximum concentration detected up to now
Test Result	εεςε Ρ Α 55	There is no fault detected.

Table 8 Transmitter menu descriptions

Note *: Power voltage and internal transmitter temperature may be different from actual value due to measuring accuracy and internal heating components.



2 seconds pause for every steps

Diagram 19 Review Mode

13. General specification

Sensepoint XCD Tra	nsmitter.							
Use		r transmitter for use with directly installed flammable and toxic gas sensors. For the lant from flammable and toxic gas hazards.						
Electrical								
	Input Voltage Range:	16 to 32 Vdc (24 Vdc nominal) for ATEX/IECEx/AP Versions 12 to 32 Vdc (24 Vdc nominal) for UL/CSA version						
	Max Power Consumption: current) Current output ≥0.0<1.0 mA	Max 5 Watts. at 24 Vdc (see chapter 2 regarding maximum in rush 4-20 mA (Source or Sink) Fault (refer to table 5 chapter 11.3 for further details).						
	4.0 mA to 20.0 mA 2.0 mA or 4.0 mA (17.4 mA)	Normal gas measurement Inhibit (during configuration/user settings)						
	22.0 mA 22.0 mA Max load resistance	Maximum over range 250 Ω						
	Terminals	15 x screw terminals suitable for wire diameter 0.5 mm ² to 2.5 mm ² (20 AWG to 13 AWG).						
	Relays	$3 \times 5 A @ 250$ VAC. Selectable normally open or normally closed (switch) and energized/de-energized (programmable). RS485, Modbus RTU						
Construction	Communication							
Material	Epoxy painted aluminium allo	w or 316 Stainless Steel						
Weight		-						
Mounting	Aluminum alloy: 1.7 kg, 316 Stainless Steel: 3.7 kg Pole or wall mounting							
	2 x M20 (for ATEX/IECEx/AP Approval) or 2x3/4' NPT (for UL Approval)							
Entries	2 x M20 (for ATEX/IECEX/AP	Approval) of 2x3/4 NPT (for UL Approval)						
Certification								
China	GB Ex d IIC T4 GB3836.1&2							
Korea US	KTL Ex d IIC T6 (-40°C to +65°C) UL - Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II,							
	Division, Groups E, F & G, C	ass II, Division 2, Groups F & G40°C to+65°C						
European	ATEX/UKEX ∰ II 2 GD Ex db to +65°C) IP66 T100°C (Ta -4	o IIC T6 Gb (Ta -40°C to +65°C) T5 (Ta -40°C to +75°C) Ex tb IIIC T85°C Db (Ta -40°C 40°C to +75°C)						
International	+65°C) IP66 T100°C (Ta -40°							
Performance Marine		ammable), EN50104 (Oxygen), EN45544 (Toxic) 3S (FL-CAT, FL-IR, H ₂ S), CCS (O ₂ , FL, Toxic), BV(H ₂ S)						
CE	EN50270:2015 EN61000-6-4	:2007						
Environmental								
IP Rating	IP66 in accordance with EN6	0529:1992						
Operating Temperature		temperatures below -40°C, but the detector continues its gas d recovers when the temperature rises back above -20 °C.						
Operating Humidity		-condensing), Intermittent 10-99 % RH (non-condensing)						
Operating Pressure	· · · · · · · · · · · · · · · · · · ·	rs), 80-120 kPa (EC Oxygen, Catalytic Bead and Infrared Sensors)						
Storage Conditions (detector and accessories)	-25°C to +65°C (-13°F to +14	9°F)						

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Gas	User Selectable Full Accuracy	Default Range	Steps	User Selectable	Default Cal	Response Time (T90)	Recovery Time for Toxic Sensors	Accuracy	Operating T	emperature*	Default al	arm points	Lowest Alarm Level	Approved
	Scale Range			Cal Gas Range	Point	secs	(T10) secs		Min	Max	A1	A2		
Electrochemical Se	nsors													
Oxygen	25.0%V/V only	25.0%V/V	n/a	20.9%V/V (Fixed)	20.9%V/V	<30 ⁷	40	<+/-0.5%V/V	-20°C / -4°F	55°C / 131°F	19.5%V/V▼	23.5%V/V▲	5%V/V	~
Hydrogen Sulfide	10.0 to 100.0ppm	50.0ppm	1.0ppm	30 to 70%	25.0ppm	<50	40	<+/-1ppm	-20°C / -4°F	55°C / 131°F	10.0ppm 🛦	20.0ppm 🛦	1.0ppm	 ✓
Carbon Monoxide	100 to 1,000ppm	300ppm	100pp m	of selected	100ppm	<30	40	<+/-6ppm	-20°C / -4°F	55°C / 131°F	100ppm 🛦	200ppm 🛦	15ppm	~
Hydrogen	1,000ppm only	1,000ppm	n/a	full-scale	500ppm	<65	110	<+/-25ppm	-20°C / -4°F	55°C / 131°F	200ppm 🛦	400ppm ▲	100ppm	
Nitrogen Dioxide**	10.0 to 50.0 ppm	10.0 ppm	5.0 ppm	range	5.0 ppm	<40	75	+/-3ppm or +/- 20%	-20°C / -4°F	55°C / 131°F	5ppm ▲	10ppm ▲	0.6ppm	
Catalytic Bead Sen	sors			25 to 95 %	·		•		•					
Flammable 1 to 8*	20 to 100%LEL	100%LEL	10%LE L	of selected full-scale range	50%LEL	<25 ⁸	N/A	<+/-1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL▲	40%LEL▲	10-40%LEL dependent on star rating	Methane, and Propane
Infrared Sensors	•				·		•		•					
Methane	20 to 100%LEL	100%LEL	10%LE L	30 to 70% of	50%LEL	<30	N/A	<+/-1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL▲	40%LEL▲	10%LEL	~
Propane	20 to 100%LEL	100%LEL	10%LE L	selected full-scale	50%LEL	<30	N/A	<+/-1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL▲	40%LEL▲	10%LEL	~
Carbon Dioxide	2.00%V/V only	2.00%V/V	n/a	range	1.00%V/V	<30	100	<+/-0.04%V/V	-20°C / -4°F	55°C / 131°F	0.40%V/V▲	0.80%V/V	0.25%V/V	
Carbon Dioxide	5.00%V/V only	5.00%V/V	n/a	1	2.50%V/V	<60	<70	<+/-0.2%V/V	-20°C / -4°F	50°C / 122°F	0.40%V/V	0.80%V/V	0.25%V/V	

▲ - Rising Alarm ▼ - Falling Alarm

NOTES

Performance figures are taken at 20~25°C:

1. measured using a sample humidity of 50 % RH, applicable between 10 and 90 % of full scale,

2. measured using test units calibrated at 50 % of full scale,

3. measured at 1000 cc/min for Methane CAT, 500 cc/min for O2, Toxic and Methane/Carbon Dioxide IR with calibration cup (S3KCAL).

4. Toxic and Oxygen sensor recovery times are taken at 20°C, 50 % RH and 500 cc/min with calibration cup (S3KCAL).

5. The maximum recommended alarm level for flammable sensors according to EN60079-29-1 is 60 % LEL.

6. Please note that XCD oxygen transmitter is intended for the measurement of oxygen deficiency or enrichment and not for inertisation measurements.

7. Response time (T90) under test conditions of EN 50104 \leq 38 s

8. Response time (T90) under test conditions of EN 60079-29-1 for methane \leq 55 s, for propane \leq 60 s.

Response time (T90) may increase when operating in lower or higher temperature conditions or when gas is introduced with the Weather Protection accessory (SPXCDWP) fitted. Methane IR sensor is calibrated and linearized only for Methane. Should it be exposed to other HC then non-linear response is expected. For linearized operation other than Methane contact Honeywell for alternate parts. Flammable CAT and Methane IR is calibrated at the factory 50 % LEL Methane (2.5 % v/v). This calibration enables 100% functional test prior to dispatch. This calibration does not remove need for calibration & test as part of commissioning at site.

For gases other than Methane the unit has to be calibrated at site using target gas. Data represents typical values, and system conditioning may be required to achieve stated result. Contact Honeywell for details.

* Extended operating temperature range of -40°C to +65°C (-40°F to +149°F) for all sensor except for IR and H2 EC sensors, with an accuracy of +/- 30 % of applied gas from -20°C to -40°C (-4°F to -40°F) and +55°C to +65°C (+131°F to +149°F). For the Methane IR Sensors, the accuracy is +/-10 % LEL from - 20°C to -40°C.

Long term operation at this range may cause decline in sensor performance.

** Care should be taken when setting alarm points lower than 3 ppm especially in high humidity conditions (higher than 50 % RH), since the gas reading could be lower than the actual concentration. Contact Honeywell Analytics for any additional data or details.

14. Ordering information

Part number	Description
Sensepoint XCD trai	nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry)
SPXCDALMFX	ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry
SPXCDALMRX	ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry
SPXCDALMPX	ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry
SPXCDALM01	ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry
SPXCDALMHX	ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry
SPXCDALMCX	ATEX/IECE/AP* Trydiogen Solide 0-Soppin (100 to 1000ppm, 100ppm) with LM25, M20 Entry
SPXCDALMG1	ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry
SPXCDALNNX	ATEX/IECEx/AP* Nitrogen Dioxide 0-50ppm with Aluminum alloy, M20 Entry
SPXCDALMB1	ATEX/IECEx/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry
SPXCDALMB2	ATEX/IECEx/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry
	nsmitter and sensor KIT (ATEX/IECEx/AP*, 316SS and M20 Entry)
SPXCDASMFX	ATEX/IECEx/AP* approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry
SPXCDASMRX	ATEX/IECEx/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry
SPXCDASMPX	ATEX/IECEx/AP* approved Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry
SPXCDASMO1	ATEX/IECEx/AP* approved Oxygen 25.0% v/v with 316SS, M20 Entry
SPXCDASMHX	ATEX/IECEx/AP* approved Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, M20 Entry
SPXCDASMCX	ATEX/IECEx/AP* approved Carbon Monoxide 0-300ppm (100 to 1000ppm, 100ppm) with 316SS, M20 Entry
SPXCDASMG1	ATEX/IECEx/AP* approved Hydrogen 0-1000ppm with 316SS, M20 Entry
SPXCDASNNX	ATEX/IECEX/ AP* approved Nitrogen Dioxide 0-50ppm with SS316, M20 Entry
SPXCDASMB1	ATEX/IECEx/AP* approved Carbon Dioxide IR 0-2.00% v/v with 316SS, M20 Entry
SPXCDASMB2	ATEX/IECEx/AP* approved Carbon Dioxide IR 0-5.00% v/v with 316SS, M20 Entry
	nsmitter and sensor KIT (UL, LM25 and 3/4' NPT Entry)
SPXCDULNFX	UL/cUL approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with LM25, 3/4' NPT Entry
SPXCDULNRX	UL/cUL approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with LM25, 3/4' NPT Entry
SPXCDULNPX	UL/cUL approved Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with LM25, 3/4' NPT Entry
SPXCDULNO1	UL/cUL approved Oxygen 25.0% v/v with LM25, 3/4' NPT Entry
SPXCDULNHX	UL/cUL approved Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, 3/4' NPT Entry
	UL/cUL approved Carbon Monoxide 0-300ppm (100 to 1000ppm, 100ppm) with LM25, 3/4 'NPT Entry
SPXCDULNCX	
SPXCDULNG1	UL/cUL approved Hydrogen 0-1000ppm with LM25, 3/4' NPT Entry
SPXCDULNNX	UL approved SP XCD Nitrogen Dioxide 0-50ppm with LM25, 3/4' NPT Entry
SPXCDULNB1	UL/cUL approved Carbon Dioxide IR 0-2.00% v/v with LM25, 3/4' NPT Entry
SPXCDULNB2	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with LM25, 3/4' NPT Entry
	nsmitter and sensor KIT (UL, 316SS and 3/4' NPT Entry)
SPXCDUSNFX	UL/cUL approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, 3/4' NPT Entry
SPXCDUSNRX	UL/cUL approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, 3/4' NPT Entry
SPXCDUSNPX	UL/cUL approved Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, 3/4' NPT Entry
SPXCDUSNO1	UL/cUL approved Oxygen 25.0% v/v with 316SS, 3/4' NPT Entry
SPXCDUSNHX	UL/cUL approved Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, 3/4' NPT Entry
SPXCDUSNCX	UL/cUL approved Carbon Monoxide 0-300ppm (100 to 1000ppm, 100ppm) with 316SS, 3/4' NPT Entry
SPXCDUSNG1	UL/cUL approved Hydrogen 0-1000ppm with 316SS, 3/4' NPT Entry
SPXCDUSNNX	UL approved SP XCD Nitrogen Dioxide 0-50ppm with SS316, 3/4' NPT Entry
SPXCDUSNB1	UL/cUL approved Carbon Dioxide IR 0-2.00% v/v with 316SS, 3/4' NPT Entry
SPXCDUSNB2	
SPXCDUSNB2	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry
Sensepoint XCD tran	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus)
Sensepoint XCD tran SPXCDALMFXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus
Sensepoint XCD tran SPXCDALMFXM SPXCDALMRXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus
Sensepoint XCD tran SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus
Sensepoint XCD tran SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMO1M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMHXM SPXCDALMCXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMHXM SPXCDALMCXM SPXCDALMG1M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry mainter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMAXM SPXCDALMCXM SPXCDALMG1M SPXCDALNNXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (100 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Dioxide 0-500ppm with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMHXM SPXCDALMCXM SPXCDALMG1M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry mainter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMAXM SPXCDALMCXM SPXCDALMG1M SPXCDALNXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (100 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Dioxide 0-500ppm with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMAXM SPXCDALMG1M SPXCDALMMSM SPXCDALMB1M SPXCDALMB2M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEX/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen 0.1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nitrogen Dioxide 0-50ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMPXM SPXCDALMO1M SPXCDALMO1M SPXCDALMCXM SPXCDALMG1M SPXCDALMMSM SPXCDALMB1M SPXCDALMB2M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEX/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen 0.100ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen 0.1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nitrogen Dioxide 1R 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus
Sensepoint XCD trai SPXCDALMFXM SPXCDALMPXM SPXCDALMO1M SPXCDALMO1M SPXCDALMCXM SPXCDALMG1M SPXCDALMG1M SPXCDALMB1M SPXCDALMB1M SPXCDALMB1M SPXCDALMB2M	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Hydrogen Dioxide 0-500ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nitrogen Dioxide 0-500pm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus
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Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMAXM SPXCDALMAXM SPXCDALMCXM SPXCDALMCXM SPXCDALMB1M SPXCDALMB2M SPXCDASMFXM SPXCDASMFXM SPXCDASMFXM SPXCDASMCXM SPXCDASMCXM SPXCDASMCXM SPXCDASMG1M SPXCDASMMXM SPXCDASMB1M SPXCDASMB1M SPXCDASMB2M UL APPROVAL (Epc	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Toxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Aptroaction Monoxide 0-500ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500ppm (10.0 to 100.0ppm, 100ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Hydrogen 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* approved Nitrogen Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nethane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen SUlfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen SUlfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen SUlfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen SUlfide 0-50ppm with S316, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen SUlfide 0-50ppm with S316, M20 Ent
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Sensepoint XCD trai SPXCDALMFXM SPXCDALMFXM SPXCDALMPXM SPXCDALMO1M SPXCDALMAXM SPXCDALMG1M SPXCDALMG1M SPXCDALMG1M SPXCDALMB1M SPXCDALMB1M SPXCDALMB2M SPXCDASMFXM SPXCDASMFXM SPXCDASMFXM SPXCDASMFXM SPXCDASMFXM SPXCDASMC1M SPXCDASMC1M SPXCDASMC1M SPXCDASMC1M SPXCDASMB1M SPXCDASMB1M SPXCDASMB1M SPXCDASMB1M SPXCDASMB2M UL APPROVAL (Epc SPXCDULNFXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEX/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEX/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Toyane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Carbon Monoxide 0-500ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Carbon Monoxide 0-500ppm (10.0 to 1000ppm, 100ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nitrogen Dioxide 0-500pm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Monoxide 0-300ppm (10.0 to 1000ppm, 1ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Monoxide 0-300ppm (10.0 to 1000ppm, 100ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Monoxide 0-300ppm (10.0 to 1000ppm, 100ppm) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Monoxide 0-300ppm (10.0 to 1000ppm, 100ppm) with 316SS, M20 Entr
Sensepoint XCD trai SPXCDALMFXM SPXCDALMRXM SPXCDALMPXM SPXCDALMO1M SPXCDALMCXM SPXCDALMG1M SPXCDALMG1M SPXCDALMG1M SPXCDALMB1M SPXCDALMB1M SPXCDALMB1M SPXCDALMB2M SPXCDASMFXM SPXCDASMFXM SPXCDASMFXM SPXCDASMPXM SPXCDASMPXM SPXCDASMCXM SPXCDASMG1M SPXCDASMG1M SPXCDASMG1M SPXCDASMB1M SPXCDASMB1M SPXCDASMB1M SPXCDASMB2M UL APPROVAL (Epc SPXCDULNFXM SPXCDULNFXM	UL/cUL approved Carbon Dioxide IR 0-5.00% v/v with 316SS, 3/4' NPT Entry nsmitter and sensor KIT (ATEX/IECEx/AP*, LM25 and M20 Entry with Modbus) ATEX/IECEx/AP* Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500pm (10.0 to 100.0ppm, 10ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500pm (10.0 to 100.0ppm, 10ppm) with LM25, M20 Entry, with Modbus ATEX/IECEx/AP* Carbon Monoxide 0-500pm (10.0 to 100.0ppm, 10ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Carbon Monoxide 0-500pm (10.0 to 100.0ppm, 10ppm) with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* Taybare 0-1000ppm with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Nitrogen Dioxide 15.000 v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-2.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Dioxide IR 0-5.00% v/v with LM25, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Propane IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Nonxide 0-300ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Nonxide 0-300ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen Sulfide 0-50ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Hydrogen Sulfide 0-300ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Nonxide 0-300ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/AP* approved Carbon Nonxide 0-300ppm with 316SS, M20 Entry, with Modbus ATEX/IECEX/

SPXCDULNCXM ULCUL approved Carbon Monoxide 0-500pm vinL LM23, 341 PMT Entry, with Modbus SPXCDULNXM ULCUL approved Antiong Monoxide 0-500pm vinL LM23, 342 PMT Entry, with Modbus SPXCDULNXM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDULNXM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDULNXM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDULNXM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDUSNPM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDUSNPM ULCUL approved Carbon Doxide PC-300 vinu LM25, 343 PMT Entry, with Modbus SPXCDUSNPM ULCUL approved Carbon Doxide PC-300 vinu LM25, 345 PMT Entry, with Modbus SPXCDUSNPM ULCUL approved Carbon Doxide PC-300 vinu		
SPECDULINIMUM UL-RLL approved Mitrogino Dioxide 5 60pm with LM25, 314 MPT Entry, with Modula SPECDULINIBUM UL-RLL approved Carbon Dioxide IR 0-75% viv with LK25, 314 MPT Entry, with Modulas SPECDULINIBUM UL-RLL approved Carbon Dioxide IR 0-75% viv with LK25, 314 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Flammable CAT 0-100%ELE (20,0 10 100.0%LEL, 10%LEL) with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Propane IR 0-100%ELE (20,0 10 100.0%LEL, 10%LEL) with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Propane IR 0-100%ELE (20,0 10 100.0%LEL, 10%LEL) with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Hydrogen S-050pm (100 to 100.0ppm, 100ppm) with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Hydrogen S-050pm (100 to 100.0ppm, 100ppm) with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Carbon Dioxide IR 0-2% viv with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Carbon Dioxide IR 0-2% viv with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Carbon Dioxide IR 0-2% viv with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Carbon Dioxide IR 0-2% viv with SS316, 347 MPT Entry, with Modulas SPECDUSINERM UL-RLL approved Carbon Dioxide IR 0-2% viv with SS316, 347 MPT Entry, with Modulas <tr< td=""><td>SPXCDULNCXM</td><td>UL/cUL approved Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, 3/4' NPT Entry, with Modbus</td></tr<>	SPXCDULNCXM	UL/cUL approved Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with LM25, 3/4' NPT Entry, with Modbus
SPXCDULNB1M UL4UL approved Carbon Donode IR 0 -7% w/w IL4DR. 34 MPT Entry, with Modules SPXCDULNB2M UL4UL4L approved Carbon Donode IR 0 -7% w/w IL4DR. 35 W MPT Entry, with Modules SPXCDUSNEXM UL4UL4L approved Membrane IR 0 -100%LEL (20 to 10.00%LEL 10%LEL) with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Membrane IR 0 -100%LEL (20 to 10.00%LEL 10%LEL) with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Propent IR 0 -100%LEL (20 to 10.00%LEL 10%LEL) with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-500pm (100 to 10.00pm, 1pmp) with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-500pm (100 to 10.00pm, 1pmp) with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4UL4 approved Carbon Donode IR 0-7% w/w with SS316.34 MPT Entry, with Modules SPXCDUSNEXM UL4	SPXCDULNG1M	UL/cUL approved Hydrogen 0-1000ppm with LM25, 3/4' NPT Entry, with Modbus
SPXCDUNAB2M UL-ULL approval Carbon Donois IR 0-5% vv wh LM25. 34f NPT Entry, with Modbus SPXCDUSNFXM UL-ULL approved HammaBic CAT 0-100%LEL (20, 10 100.0%LEL, 10%LEL) with SS316, 34f NPT Entry, with Modbus SPXCDUSNFXM UL-ULL approved Hamma Bic AT 0-100%LEL (20, 10 100.0%LEL, 10%LEL) with SS316, 34f NPT Entry, with Modbus SPXCDUSNFXM UL-ULL approved Program Bic 1-00%LEL (20, 10 100.0%LEL, 10%LEL) with SS316, 34f NPT Entry, with Modbus SPXCDUSNFXM UL-ULL approved Hydrogen S-050pm (100 to 100.0ppm, 10ppm) with SS316, 34f NPT Entry, with Modbus SPXCDUSNFXM UL-ULL approved Hydrogen S-050pm (100 to 100.0ppm, 10ppm) with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-50pm with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-ULL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-UL approved Carbon Dicoide R 0-5% vv with SS316, 34f NPT Entry, with Modbus SPXCDUSNSTM UL-UL a	SPXCDULNNXM	UL/cUL approved Nitrogen Dioxide 0-50ppm with LM25, 3/4' NPT Entry, with Modbus
UL APPROVAL (Epoxy Carele Stanless Steel, S3316, With Moduus) SPXCDUSHRXM. UL/UL, approved Hermania CA-1004LEL (20 to 100.074/LEL, 104/LEL) with S3316, 344 MPT Entry, with Moduus SPXCDUSHRXM. UL/UL, approved Propers R0 1000/REL (20, 10 100.074/LEL, 104/LEL) with S3316, 344 MPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Propers R0 1000/REL (20, 10 100.00, Pmt, 1597), with S3316, 344 MPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Monoxide 0-500pm (10 to 100.0pm, 100) with S3316, 344 MPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Monoxide 0-500pm (10 to 100.0pm, 100) with S3316, 344 MPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVM. UL/UL, approved Carbon Doxide IR 0-2% viv with S3316, 344 NPT Entry, with Moduus SPXCDUSHRVS. Methaner CAT-10704LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Methaner CAT-10704LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LEL, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE, 1074/LEL) SPXCDSSYSXS Propen IR 0-10074LE (20 to 100.0% LE) SPXCDSSYSXS Propen IR 0-10074L	SPXCDULNB1M	UL/cUL approved Carbon Dioxide IR 0-2% v/v with LM25, 3/4' NPT Entry, with Modbus
SPXCDUSKPKM UL/cll, approved Flammable CAT 0-100%LEL (20:0 to 10:00%LEL, 10%LEL) with SS316, 341 WPT Entry, with Modbus SPXCDUSKRVM UL/cll, approved Propane IR 0-100%LEL (20:0 to 10:00%LEL, 10%LEL) with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Propane IR 0-100%LEL (20:0 to 10:00%LEL, 10%LEL) with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Propane Sulfide 0-50pm (10:0 to 100:0ppm, 1ppm) with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0-2% with SS316, 341 WPT Entry, with Modbus SPXCDUSKNVM UL/cll, approved Cabon Doxide IR 0	SPXCDULNB2M	UL/cUL approved Carbon Dioxide IR 0-5% v/v with LM25, 3/4' NPT Entry, with Modbus
SPXCDUSHRYM UL/EUL approved Members IR 0-109%LEL (20.1 to 100%LEL 10%LE), with S316, 34* NPT Entry, with Moduus SPXCDUSHRYM UL/EUL approved Orygens R0.10% with s3316, 34* NPT Entry, with Moduus SPXCDUSHRYM UL/EUL approved Sphore S0.5% with with S3316, 34* NPT Entry, with Moduus SPXCDUSHRYMM UL/EUL approved Carbon Monoxide 0-500pm (100 to 100.0pm, nn; np; nn) SPXCDUSHRYMM UL/EUL approved Carbon Monoxide 0-500pm (100 to 100.0pm, nn; np; nn) SPXCDUSHRYMM UL/EUL approved Carbon Monoxide 0-500pm (100 to 100.0pm, nn; np; nn) SPXCDUSHRYMM UL/EUL approved Carbon Monoxide 0-500pm (100 to 100.0pm, nn; np; nn) SPXCDUSHRYMM UL/EUL approved Carbon Doxide R 0-25% with MS S316, 34* NPT Entry, with Moduus SPXCDUSHRYMM UL/EUL approved Carbon Doxide R 0-25% with MS S316, 34* NPT Entry, with Moduus SPXCDUSHRYMM UL/EUL approved Carbon Doxide R 0-25% with S3316, 34* NPT Entry, with Moduus SPXCDUSHRXM UL/EUL approved Carbon Doxide R 0-25% with S3316, 34* NPT Entry, with Moduus SPXCDUSHRXM UL/EUL approved Carbon Doxide R 0-25% with S3316, 34* NPT Entry, with Moduus SPXCDUSHRXM UL/EUL approved Carbon Doxide R 0-100% ILL (10% ILL 10% ILL 1) SPXCDXSTSSS Propens Re10 Collection (Dox NLEL 1, 10% ILE 1) SPXCDXSTSSS Orygon 25.0% with only SPXCDXST	UL APPROVAL (Epo	xy Coated Stainless Steel, SS316, With Modbus)
SPXCDUSHPM UL/cut. approved Progene IR 0-100%LEL 200 to 100 0%LEL 10%LEL 10%LEL 10%LEL 30% DFT Entry, with Modula SPXCDUSHVM UL/cut. approved Y-bridgen Sulfide 0-500pm (100 to 100 0ppm, 10pm) with SS15.34 NPT Entry, with Modula SPXCDUSHVM UL/cut. approved Cachon Monoxode 0-500pm (100 to 1000ppm, 10pm) with SS15.34 NPT Entry, with Modula SPXCDUSHVM UL/cut. approved Cachon Monoxode 0-500pm (100 to 1000ppm, 10pm) with SS15.34 NPT Entry, with Modula SPXCDUSHVM UL/cut. approved Cachon Doxide IR 0-2% w with SS15.34 NPT Entry, with Modula SPXCDUSHVM UL/cut. approved Cachon Doxide IR 0-2% w with SS15.34 NPT Entry, with Modula SPXCDUSHVM UL/cut. approved Cachon Doxide IR 0-2% w with SS16.34 NPT Entry, with Modula SPXCDUSHSVM UL/cut. approved Cachon Doxide IR 0-2% w with SS16.34 NPT Entry, with Modula SPXCDUSHSVM UL/cut. approved Cachon Doxide IR 0-2% w with SS16.34 NPT Entry, with Modula SPXCDUSHSVM UL/cut. approved Cachon Doxide IR 0-2% w with SS16.34 NPT Entry, with Modula SPXCDUSHSVM UL/cut. approved Cachon Doxide IR 0-2% w with SS16.34 NPT Entry, with Modula SPXCDUSHXS Menhane CAT 0-100%LE (2.00 to 100.0%LE, 10%LEL) SPXCDUSHXS Menhane CAT 0-100%LE (2.00 to 100.0%LE, 10%LEL) SPXCDUSHXS Hardon Cano Monoxide 0-600pm (10 to 10.00pm, 100ppm) SPXCDUSHXSS	SPXCDUSNFXM	UL/cUL approved Flammable CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with SS316, 3/4' NPT Entry, with Modbus
SPECDUSHOM UL/cll. approval Drogen 25.0% w/ with SS16, 34/ NPT Entry, with Modula SPECDUSHCM UL/cll. approval Chokon Manoxide 0-500pm (100 to 1000,pm. https)) SPECDUSHCM UL/cll. approval Chokon Manoxide 0-500pm (100 to 1000,pm. https)) SPECDUSHCM UL/cll. approval Chokon Manoxide 0-500pm (100 to 1000,pm. https)) SPECDUSHCM UL/cll. approval Chokon Davide 0-50pm with SS316, 34/ NPT Entry, with Modula SPECDUSHEM UL/cll. approval Chokon Davide IR 0-5% w/w with SS316, 34/ NPT Entry, with Modula SPECDUSHEM UL/cll. approval Chokon Davide IR 0-5% w/w with SS316, 34/ NPT Entry, with Modula SPECDUSHEM UL/cll. approval Chokon Davide IR 0-5% w/w with SS316, 34/ NPT Entry, with Modula SPECDUSHEM UL/cll. approval Chokon Davide IR 0-5% w/w with SS316, 34/ NPT Entry, with Modula SPECDUSHEM UL/cll. approval Chokon Davide IR 0-5% w/w with SS316, 34/ NPT Entry, with Modula SPECDUSHEM Mathame IR 0-10%/LEL (20.0 to 100.%/LEL 10%/LEL) SPECDUSHEM Mathame IR 0-10%/LEL (20.0 to 100.0%/LEL 10%/LEL) SPECDUSHEM Hydrogen Sulfal 0-50pm (10.0 to 100.0pm, 10pm) SPECDUSHCM Hydrogen Chokode 0-400pm (10.0 to 30.0pm) SPECDUSHCM Hydrogen Chokode 0-400pm (10.0 to 30.0pm) SPECDUSHCM Hydrogen Chokode 0-40.0pm (10.0 to 30.0pm)	SPXCDUSNRXM	UL/cUL approved Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with SS316, 3/4' NPT Entry, with Modbus
SPXCDUSNHXM ULDUL approved Hydrogen Sulfide 0-50ppm (10 to 100 0ppm, 10 ppm) with S3316, 34/ NPT Entry, with Modbus SPXCDUSNCXM ULDUL approved Carbon Anooks 0-500pm (10 to 1000ppm, 10 ppm) with S3316, 34/ NPT Entry, with Modbus SPXCDUSNCXM ULULU approved Carbon Dioxide IR 0-2% v/v with S3316, 34/ NPT Entry, with Modbus SPXCDUSNNEXM ULULU approved Carbon Dioxide IR 0-2% v/v with S3316, 34/ NPT Entry, with Modbus SPXCDUSNNEXM ULULU approved Carbon Dioxide IR 0-2% v/v with S3316, 34/ NPT Entry, with Modbus SPXCDUSNNEXM ULULU approved Carbon Dioxide IR 0-2% v/v with S3316, 34/ NPT Entry, with Modbus SPXCDUSNEXM Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDUSNEXS Methane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDUSNEXS Propane IR 0-100%LEL (20,0 to 100.0%pm, 100ppm) SPXCDUSNEXS Hydrogen Sulfide 0-50ppm (10 to 100.0ppm, 100ppm) SPXCDUSNEXS Carbon Dioxide IR 0-52,00% v/v only SPXCDUSNEXS Carbon Dioxide IR 0-2,00% v/v only SPXCDUSNEXS Carbon Dioxide IR 0-2,00% v/v only SPXCDUSNEXS Carbon Dioxide IR 0-2,00% v/v only SPXCDDXSISS Carbon Dioxide IR 0-2,00% v/v only SPXCDXSISS Carbon Dioxide IR 0-2,00% v/v only SPXCDXSISSS Carbon Dioxide	SPXCDUSNPXM	UL/cUL approved Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) with SS316, 3/4 NPT Entry, with Modbus
SPXCDUSNCXM ULUCUL approved Charbon Monoxide 0-500ppm (10:00 to 1000ppm). 100ppm) with S316. 34/ NPT Entry, with Modbus SPXCDUSNNXM ULUCUL approved Hydrogon -1000ppm with S3516. 34/ NPT Entry, with Modbus SPXCDUSNNXM ULUCUL approved Carbon Doxide IR 0-2% v/v with S3316. 34/ NPT Entry, with Modbus SPXCDUSNRXM ULUCUL approved Carbon Doxide IR 0-2% v/v with S3316. 34/ NPT Entry, with Modbus Replacement sensor Carridge SPXCDUSNRXS SPXCDUSNRXS Methane CAT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDUSNRXS Methane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDUSNRXS Methane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDUSNRXS Methane IR 0-100%LEL (20.0 to 100.0%pm, 10%LEL) SPXCDUSNRXS Indom Monoxide 0-500ppm (10.0 to 100.0%pm, 10%LEL) SPXCDUSNRXS Carbon Monoxide 0-500ppm (10.0 to 50.0ppm) SPXCDUSNRXS Nitrogen Doxide IR 0-2.0% v/v only SPXCDUSNRXS Carbon Doxide IR 0-2.0% v/v only SPXCDUSNRXS Carbon Doxide IR 0-2.0% v/v only SPXCDDK Carbon Doxide IR 0-2.0% v/v only SPXCDDK Carbon Doxide IR 0-2.0% v/v only SPXCDDK Carbon Doxide IR 0-5.0% v/v only SPXCDDK Carbon Doxide IR 0-5.0% v/v only </td <td>SPXCDUSNO1M</td> <td>UL/cUL approved Oxygen 25.0% v/v with SS316, 3/4' NPT Entry, with Modbus</td>	SPXCDUSNO1M	UL/cUL approved Oxygen 25.0% v/v with SS316, 3/4' NPT Entry, with Modbus
SPXCDUSNCIM ULCUL approved Hydrogen 0-1000pm with SS316, 344 NPT Entry, with Modbus SPXCDUSNNSUM ULCUL approved Carbon Dioxide IR 0-2% wy with SS316, 344 NPT Entry, with Modbus SPXCDUSNNSUM ULCUL approved Carbon Dioxide IR 0-5% v/v with SS316, 344 NPT Entry, with Modbus SPXCDUSNNSUM ULCUL approved Carbon Dioxide IR 0-5% v/v with SS316, 344 NPT Entry, with Modbus Replacement sensor Carridge SPXCDNSNSUS Metname AT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSNSUS Metname AT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSNSUS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSNSUS Carbon Dioxide 0-500pm (10.0 to 100.0pm, 100pm) SPXCDNSNSUS Carbon Dioxide 0-500pm (10.0 to 100.0pm, 100pm) SPXCDNSNSUS Carbon Dioxide 1R 0-2.00% vv only SPXCDNSNSUS Carbon Dioxide IR 0-2.00% vv only SPXCD	SPXCDUSNHXM	UL/cUL approved Hydrogen Sulfide 0-50ppm (10.0 to 100.0ppm, 1ppm) with SS316, 3/4' NPT Entry, with Modbus
SPXCDUSNIXM ULULL approved Amongon Dioxide in Roya Wink Stating. 344 NPT Entry, with Modbus SPXCDUSNIXM ULULL approved Carbon Dioxide IR 0-5% v/v with SS316. 344 NPT Entry, with Modbus SPXCDUSNIXM ULULL approved Carbon Dioxide IR 0-5% v/v with SS316. 344 NPT Entry, with Modbus SPXCDUSNIXM Methane CAT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDXSFXSS Methane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDXSFXSS Carbon Monoxide 0-500pm (10.0 to 100.0ppm, 10pm) SPXCDXSFXSS Carbon Monoxide 0-500pm (10.0 to 50.0ppm) SPXCDXSFXSS Carbon Dioxide IR 0-2.00% v/v only SPXCDXSFXSS Carbon Dioxide IR 0-0.00% v/v only SPXCDXSFXSS Carbon Dioxide IR 0-5.00% v/v only	SPXCDUSNCXM	UL/cUL approved Carbon Monoxide 0-500ppm (100 to 1000ppm, 100ppm) with SS316, 3/4' NPT Entry, with Modbus
SPXCDUSNEIM UL/cul. approved Carbon Dioxide IR 0-5% v/v with SS316, 3/4' NPT Entry, with Modbus SPXCDUSNEIM UL/cul. approved Carbon Dioxide IR 0-5% v/v with SS316, 3/4' NPT Entry, with Modbus SPXCDUSNEIM Withanne CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDNSRXSS Methane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDNSRXSS Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDNSRXSS Propane IR 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SPXCDNSRXSS Sydrogen SR 0-10000pm nt SPXCDNSRXSS Carbon Monoide 0-500pm (10.0 to 50.0ppm) SPXCDNSRXSS Carbon Dioxide IR 0-5.00% v/v only Accessorie SXCAL Calibration cap SXCAL SPXCDDSDN Calibration cap SPXCDDSDN Usurt mounting kit SPXCDDSDN Subarbade / Debug Protection SPXCDDMK Duct mounting kit SPXCDDMK Hard Copy Manual in Chinese Janguage SPXCDDMN Hard Copy Manual in Chinese Janguage <t< td=""><td>SPXCDUSNG1M</td><td>UL/cUL approved Hydrogen 0-1000ppm with SS316, 3/4' NPT Entry, with Modbus</td></t<>	SPXCDUSNG1M	UL/cUL approved Hydrogen 0-1000ppm with SS316, 3/4' NPT Entry, with Modbus
SPXCDUSNE24 UL/ULL approved Carbon Dixxide IR 0-5% v/v with SS316, 3/4 NPT Entry, with Modbus Replacement sensor Cartridge SXCDNSFXSS Mentane CAT 0-100%LEL (20,0 to 100,0%LEL, 10%LEL) SPXCDNSFXSS Mentane CAT 0-100%LEL (20,0 to 100,0%LEL, 10%LEL) SXCDNSFXSS SPXCDNSFXSS Mentane CAT 0-100%LEL (20,0 to 100,0%LEL, 10%LEL) SXCDNSFXSS SPXCDNSFXSS Mentane CAT 0-100%LEL (20,0 to 100.0%LEL, 10%LEL) SXCDNSFXSS SPXCDNSFXSS Carbon Moxide 0-500ppm (10.0 to 100.0ppm, 1ppm) SYXCDNSFXSS SPXCDNSFXSS Larbon Moxide 0-500ppm (10.0 to 50.0ppm) SXFCAL SPXCDNSFXSS Larbon Dixoide R 0-5.00% v/v only SXFCAL SPXCDNSFXSS Larbon Dixoide R 0-5.00% v/v only SXFCAL Calibration cap SXFCAL Calibration cap SYRCDNS Duct moxing kit SXFCAL SPXCDMINT Duct moxing kit SXFCAL SYRCDNS Sumatade / Daluge Protection SXFCAL SYRCDNF1 Replacement display module (C2 & Toxic) SYRCDMINT Replacement display module (C2 & Toxic) SYRCDMINT1 Replacement display module (C2 & Toxic) SYRCDDMIT12 Repl	SPXCDUSNNXM	UL/cUL approved Nitrogen Dioxide 0-50ppm with SS316, 3/4' NPT Entry, with Modbus
Replacement sensor Carridge SPRCDXSFXSS Methane R0 -100%LEL (20.0 to 100.0%LEL, 10%LEL) SPRCDXSFXSS Methane R0 -100%LEL (20.0 to 100.0%LEL, 10%LEL) SPRCDXSFXSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPRCDXSFXSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPRCDXSFXSS Propane IR 0-100%LEL (20.0 to 100.0%DPM, 10%LEL) SPRCDXSFXSS Hydrogen 5.01/60 to 100.0ppm, 100ppm) SPRCDXSSTSS Carbon Monokide 0-500ppm (10.0 to 50.0ppm) SPRCDXSSTSS Carbon Dioxide IR 0-5.00% v/v only Accessories SIGCAL Calibration cap SPRCDCSSTSSTS SPRCDDSDSTS Calibration cap SPRCDDSDSTS Duct mounting kit SPRCDDTSDSTS Sumahad / Deluga Protection SPRCDMAR Had Copy Manual in Childreg fixings and hex wrench set) SPRCDMAR Had Copy Manual in Childreg fixings SPRCDMAR Had Copy Manual in Childreg fixings SPRCDMARME Had Copy Manual in Childreg fixings SPRCDMARME Had Copy Manual in Childreg fixings SPRCDMARME Had Copy Manual in Childreg fixings SPRCDDMARME Had Copy Manual in Chiln	SPXCDUSNB1M	UL/cUL approved Carbon Dioxide IR 0-2% v/v with SS316, 3/4' NPT Entry, with Modbus
SPXCDNSFXSS Methane CAT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Methane (R 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Cathon Monoxide 0-500pm (10.0 to 100.0ppm, 1ppm) SPXCDNSRVSS Cathon Monoxide 0-500pm (10.0 to 100.0ppm, 100pm) SPXCDNSRVSS Nitrogen Dioxide IR 0-2.00% v/v only SPXCDNSRVSS Cathon Monoxide IR 0-5.00% v/v only Accessories SXRCAL Calibration cap SXRCAL SPXCDNSRVS Duct mouning kt SPXCDDMTBR Duct mouning kt SPXCDDMTBR Duct mouning kt SPXCDMMANCM Hard Copy Manual in English language SPXCDMMANCM Hard Copy Manual in English language SPXCDMMANCM Hard Copy Manual in Charean language SPXCDMMANCM Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDDMM12 Repl	SPXCDUSNB2M	UL/cUL approved Carbon Dioxide IR 0-5% v/v with SS316, 3/4' NPT Entry, with Modbus
SPXCDNSFXSS Methane CAT 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Methane (R 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Propane IR 0-100%LEL (20.0 to 100.0%LEL, 10%LEL) SPXCDNSRVSS Cathon Monoxide 0-500pm (10.0 to 100.0ppm, 1ppm) SPXCDNSRVSS Cathon Monoxide 0-500pm (10.0 to 100.0ppm, 100pm) SPXCDNSRVSS Nitrogen Dioxide IR 0-2.00% v/v only SPXCDNSRVSS Cathon Monoxide IR 0-5.00% v/v only Accessories SXRCAL Calibration cap SXRCAL SPXCDNSRVS Duct mouning kt SPXCDDMTBR Duct mouning kt SPXCDDMTBR Duct mouning kt SPXCDMMANCM Hard Copy Manual in English language SPXCDMMANCM Hard Copy Manual in English language SPXCDMMANCM Hard Copy Manual in Charean language SPXCDMMANCM Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDMMANCR Hard Copy Manual in Charean language SPXCDDMM12 Repl	Replacement sensor	Cartridge
SPXCDNSRXSS Methane IR 0-100%LEL (20, 0 to 100,0%LEL, 10%LEL) SPXCDXSOTSS Orogane R 0-100%LEL (20, 0 to 100,0%LEL, 10%LEL) SPXCDXSOTSS Orogane R 0-100%LEL (20, 0 to 100,0%LEL, 10%LEL) SPXCDXSOTSS Hydrogen 50,0% v/v only SPXCDXSOTSS Carbon Monoside 0-500pm (100 to 1000pm, 10ppm) SPXCDXSSTSS Carbon Monoside 0-500pm (10.0 to 50,0pm) SPXCDXSSTSS Carbon Dixoide R 0-2,00% v/v only SPXCDXSSTSS Carbon Dixoide R 0-2,00% v/v only Accessories SXCAL Calibration cap SPXCDXSDXSSTSS SPXCDXSDX Duct mounting kit SPXCDXSDX Duct mounting kit SPXCDMANNCN Hard Copy Manual in Chreise language SPXCDMANNCN Hard Copy Manual in Chreise language SPXCDTMANNCN Hard C		
SPXCDXSPXSS Programe IR 0-100%LEL (20, 10 100.0%LEL, 10%LEL) SPXCDXSPXSS Oxygen 25.0% w/v only SPXCDXSPXSS Cathon Monoxide 0-500ppm (100 to 10000ppm, 100ppm) SPXCDXSPXSS Cathon Monoxide 0-500ppm (100 to 10000ppm, 100ppm) SPXCDXSSTSS Nitrogen Dioxide 0-100ppm (100 to 500,0ppm) SPXCDXSSTSS Nitrogen Dioxide R 0-200% w/v only SPXCDXSSTSS Cathon Dioxide R 0-5.00% w/v only Accessories SXRCAL Calibration cap SXRCAL SPXCDXSTSS Dioxide D rouse with lighter than air gases SPXCDMK Dut mounting kit SPXCDMK Dut mounting kit SPXCDMKANK Hard Copy Manual in English inguage SPXCDMMANCN Hard Copy Manual in Chrises language SPXCDDMANCN Hard Copy Manual in Chrises language SPXCDDMANKN Hard Copy Manual in Chrises language SPXCDDMANC Replacement terminal module (C2 & Toxic) SPXCDTMANE Replacement terminal modu		
EPKCDXSO15S Orgigen 25 0% v/v only SPXCDXSCXSS Hydrogen Sulide 0-500pm (10.0 to 1000ppm, 1ppm) SPXCDXSCXSS Carbon Monoxide 0-500pm (10.0 to 1000ppm, 100ppm) SPXCDXSS1SS Carbon Dioxide 10-200% v/v only SPXCDXSS1SS Carbon Dioxide 10-5.00% v/v only SPXCDSXSS1SS Carbon Dioxide 10-5.00% v/v only SPXCDSXSS1SS Calibration cap SPXCDSXSD1SS Calibration cap SPXCDSXSD1SS Calibration cap SPXCDDSDP Duct mounting bit SPXCDDSP SpxCobmM Duct mounting brack (including fixings and hex wench set) SPXCDMANCN Hard Copy Manual in English language SPXCDMANCN Hard Copy Manual in Chinese language SPXCDDTMANCN Hard Copy Manual in Chinese language SPXCDDTMANCN Hard Copy Manual in Chinese language SPXCDTMANCN Hard Copy Manual in Chinese language SPXCDDTM12 Replacement display module (02 & Toxic) SPXCDDTM12 Replacement display module (02 & Toxic) SPXCDTM12 Replacement display module (C2 & Toxic) SPXCDTM12 Replacement display module (C2 & Toxic) <		
SPXCDXSHXSS Hydrogen Sulfide 0-30ppm (10.0 to 10.00ppm, 100ppm) SPXCDXSGXSS Cathon Monoxide 0-30ppm (10.0 to 10.00ppm, 100ppm) SPXCDXSG1SS Hydrogen 0-100bpr (10.0 to 50.0ppm) SPXCDXSST Cathon Dioxide IR 0-200% v/v only SPXCDXSST Cathon Dioxide IR 0-200% v/v only Accessories SXCAL Calibration cap SXRAL SPXCDXST Collecting cone for use with lighter than air gases SPXCDXB Deut mounting kit SPXCDDMTER Pipe Mounting bracket (including fixings and hex wrench set) SPXCDMANEN Hard Copy Manual in Chinese language SPXCDHMANEN Hard Copy Manual in Korean language SPXCDMMANEN Hard Copy Manual in Korean language SPXCDDMANEN Hard Copy Manual in Korean language SPXCDDMANEN Hard Copy Manual in Korean language SPXCDDMI12 Replacement display module (02 a Toxic) SPXCDDMI12 Replacement display module (02 A Toxic) SPXCDTM12 Replacement terminal module (Cal & Rix) SPXCDTM12 Replacement terminal module (Cal & Rix) SPXCDTM12 Replacement terminal module (Cal & Rix) SPXCDTM41		
SPXCDXSCXSS Carbon Monoxido -500ppm (100 to 1000ppm) SPXCDXSNXSS Hydrogen 0-1000pm ronly SPXCDXSNXSS Nitrogen Dioxide IR 0-2.00% v/v only SPXCDXSSISS Carbon Dioxide IR 0-2.00% v/v only SPXCDXSDXSS Carbon Dioxide IR 0-2.00% v/v only SPXCDXSDXSD Calibration cap SPXCDXSDXSD Calibration cap SPXCDDSDM Duct mounting kit SPXCDDSDP Sunshade / Deluge Protection SPXCDDMANNEN Hard Copy Manual in English language SPXCDDMANNEN Hard Copy Manual in English language SPXCDDMANNEN Hard Copy Manual in Kneese language SPXCDDMANNEN Hard Copy Manual in Kneese language SPXCDDMIX Replacement display module (O2 & Toxic) SPXCDDMI12 Replacement display module (O2 & Toxic) SPXCDDMI12 Replacement terminal module (O2) SPXCDTMI12 Replacement terminal module (O2) SPXCDTMI12 Replacement terminal module (FL & IR)		
SPXCDXSG19S Hydrogen 0-1000pm only SPXCDXSNXSS Nitrogen Dioxide 0-10pm (10.0 to 50.0ppm) SPXCDXSB1SS Carbon Dioxide IR 0-2.00% v/v only Accessories SXCAL SIXCAL Calibration cap SPXCDXSB1SS Carbon Dioxide IR 0-5.00% v/v only Accessories SXCAL SPXCDDMM Duct mounting kt SPXCDDMTBR Pipe Mounting bracket (including fixings and hex wrench set) SPXCDDMTBR Pipe Mounting bracket (including fixings and hex wrench set) SPXCDDMTBN Hard Copy Manual in Korean language SPXCDHMANRM Hard Copy Manual in Korean language SPXCDHMANRM Hard Copy Manual in Korean language SPXCDDMT12 Replacement display module (V2 & Toxic) SPXCDDTM12 Replacement display module (V2 & Toxic) SPXCDTMT12 Replacement terminal module (V2 & Soc) SPXCDDTMT12 Replacement terminal module (V2 & Soc) SPXCDTMT12 Replacement terminal module	SPXCDXSCXSS	
EPXCDXSINXSS Nirrogan Dioxide ID -10ppm (10.0 50.0ppm) SPXCDXSB1SS Carbon Dioxide IR 0-2.00% v/v only SPXCDXSB2SS Carbon Dioxide IR 0-5.00% v/v only Accessories Stackal SIXCAL Calibration cap SPXCDXSDSP Duot mounting bit SPXCDDDMK Duct mounting bit SPXCDDSP Sunshader / Deluge Protection SPXCDHMANEN Hard Copy Manual in Chinese language SPXCDDMMANCN Hard Copy Manual in Chinese language SPXCDDMMANCN Hard Copy Manual in Chinese language SPXCDDMMANCN Hard Copy Manual in Chinese language SPXCDDM1712 Replacement display module (72.8 Toxic) SPXCDDM1712 Replacement terminal module (74.8 IR) SPXCDM1712 Replacement terminal module (74.8 IR)		
SPXCDXSB2SS Carbon Dioxide IR 0-5.00% v/v only Accessories SSKCAL Calibration cap SPXCDXC Collecting cone for use with lighter than air gases SPXCDMX Duct mounting kit SPXCDMX SPXCDMX Duct mounting bracket (including fixings and hex wrench set) SPXCDHMANEN Hard Copy Manual in English language SPXCDHMANCN Hard Copy Manual in English language SPXCDHMANCN Hard Copy Manual in Korean language SPXCDDM112 Replacement display module (02 & Toxic) SPXCDDM112 Replacement display module (02 & Toxic) SPXCDDM112 Replacement terminal module (FL & IR) SPXCDTM112 Replacement terminal module (Toxic) SPXCDTM112 Replacement terminal module (Toxic) SPXCDTM112 Replacement terminal module (Toxic) SPXCDTM12 Replacement terminal module (Toxic) SPXCDTM2 Ser	SPXCDXSNXSS	Nitrogen Dioxide 0-10ppm (10.0 to 50.0ppm)
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SPXCDHMANKR Hard Copy Manual in Korean language Spares SPXCDDMT12 Replacement display module (O2 & Toxic) SPXCDDMF12 Replacement terminal module (O2) SPXCDTM12 Replacement terminal module (Toxic) SPXCDTM12 Replacement terminal module (Toxic) SPXCDTM12 Replacement terminal module (FL & IR) SPXCDTMK Replacement terminal module fL & IR) SPXCDTMK Terminal block set SPXCDTMK Terminal block set SPXCDNADP 3/4' NPT Plug SPXCDMADD Instruction manual CD-ROM SPXCDMADD M20 Plug SPXCDNADP 3/4' NPT to M20 Adaptor SPXCDSRLS Sensor Retainer with locking screw SPXCDSRES Earth Bracket and Screws SPXCDSFGC1 Special Flammable Gas Calibration, 0-100%LEL, 1* SPXCDSFGC2 Special Flammable Gas Calibration, 0-100%LEL, 2* SPXCDSFGC3 Special Flammable Gas Calibra	SPXCDHMANEN	Hard Copy Manual in English language
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SPXCDMBUS Replacement Modbus Module SPXCDSERVK Service Kit containing all o-rings, terminal module and locking screws SPXCDTOOLK Factory toolkit containing magnetic wand and hex wrenches for locking and earth screws SPXCDTMK Terminal block set SPXCDNPTP 3/4' NPT Plug SPXCDMADD Instruction manual CD-ROM SPXCDNADD Instruction manual CD-ROM SPXCDNADP 3/4' NPT to M20 Adaptor SPXCDVP Weather Protection SPXCDSRLS Sensor Retainer with locking screw SPXCDSFGC1 Special Flammable Gas Calibration, 0-100%LEL, 1* SPXCDSFGC2 Special Flammable Gas Calibration, 0-100%LEL, 2* SPXCDSFGC3 Special Flammable Gas Calibration, 0-100%LEL, 4* SPXCDSFGC4 Special Flammable Gas Calibration, 0-100%LEL, 5* SPXCDSFGC7 Special Flammable Gas Calibration, 0-100%LEL, 5* SPXCDSFGC8 Special Flammable Gas Calibration, 0-100%LEL, 7* SPXCDSFGC8 Special Flammable Gas Calibration, 0-100%LEL, 7*	SPXCDTMT12	Replacement terminal module (Toxic)
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SPXCDSFGC7 Special Flammable Gas Calibration, 0-100%LEL, 7* SPXCDSFGC8 Special Flammable Gas Calibration, 0-100%LEL, 8*	SPXCDTMK SPXCDNPTP SPXCDM20P SPXCDMANCD SPXCDMADP SPXCDWP SPXCDSRLS SPXCDEBS Special Flammable (SPXCDSFGC1 SPXCDSFGC2 SPXCDSFGC3	Terminal block set 3/4' NPT Plug M20 Plug Instruction manual CD-ROM 3/4' NPT to M20 Adaptor Weather Protection Sensor Retainer with locking screw Earth Bracket and Screws 3as Calibration Special Flammable Gas Calibration, 0-100%LEL, 1* Special Flammable Gas Calibration, 0-100%LEL, 2* Special Flammable Gas Calibration, 0-100%LEL, 3*
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	SPXCDTMK SPXCDNPTP SPXCDM20P SPXCDMANCD SPXCDNADP SPXCDSRLS SPXCDSRLS SPXCDEBS Special Flammable (SPXCDSFGC1 SPXCDSFGC2 SPXCDSFGC3 SPXCDSFGC4	Terminal block set 3/4' NPT Plug M20 Plug Instruction manual CD-ROM 3/4' NPT to M20 Adaptor Weather Protection Sensor Retainer with locking screw Earth Bracket and Screws 3as Calibration Special Flammable Gas Calibration, 0-100%LEL, 1* Special Flammable Gas Calibration, 0-100%LEL, 2* Special Flammable Gas Calibration, 0-100%LEL, 2* Special Flammable Gas Calibration, 0-100%LEL, 2* Special Flammable Gas Calibration, 0-100%LEL, 4*
Note: If no Special Flammable Gas Calibration part no, is included on PO, a Methano (6* calibration will be supplied)	SPXCDTMK SPXCDNPTP SPXCDM20P SPXCDMANCD SPXCDNADP SPXCDSRLS SPXCDSRLS SPXCDEBS Special Flammable (SPXCDSFGC1 SPXCDSFGC1 SPXCDSFGC2 SPXCDSFGC3 SPXCDSFGC4 SPXCDSFGC5	Terminal block set 3/4' NPT Plug M20 Plug Instruction manual CD-ROM 3/4' NPT to M20 Adaptor Weather Protection Sensor Retainer with locking screw Earth Bracket and Screws 3as Calibration Special Flammable Gas Calibration, 0-100%LEL, 1* Special Flammable Gas Calibration, 0-100%LEL, 3* Special Flammable Gas Calibration, 0-100%LEL, 3* Special Flammable Gas Calibration, 0-100%LEL, 4* Special Flammable Gas Calibration, 0-100%LEL, 5*
Trote, in the openiar manimable das calibration part no. is included on FO, a methalie (or calibration will be supplied)	SPXCDTMK SPXCDNPTP SPXCDMA0P SPXCDMANCD SPXCDWP SPXCDWP SPXCDWP SPXCDEBS Special Flammable (SPXCDSFGC1 SPXCDSFGC2 SPXCDSFGC3 SPXCDSFGC3 SPXCDSFGC5 SPXCDSFGC5 SPXCDSFGC7	Terminal block set 3/4' NPT Plug M20 Plug Instruction manual CD-ROM 3/4' NPT to M20 Adaptor Weather Protection Sensor Retainer with locking screw Earth Bracket and Screws 3as Calibration Special Flammable Gas Calibration, 0-100%LEL, 1* Special Flammable Gas Calibration, 0-100%LEL, 2* Special Flammable Gas Calibration, 0-100%LEL, 3* Special Flammable Gas Calibration, 0-100%LEL, 4* Special Flammable Gas Calibration, 0-100%LEL, 7*

* AP approvals include GB & PA for China and KTL for Korea.

15. Warranty statement

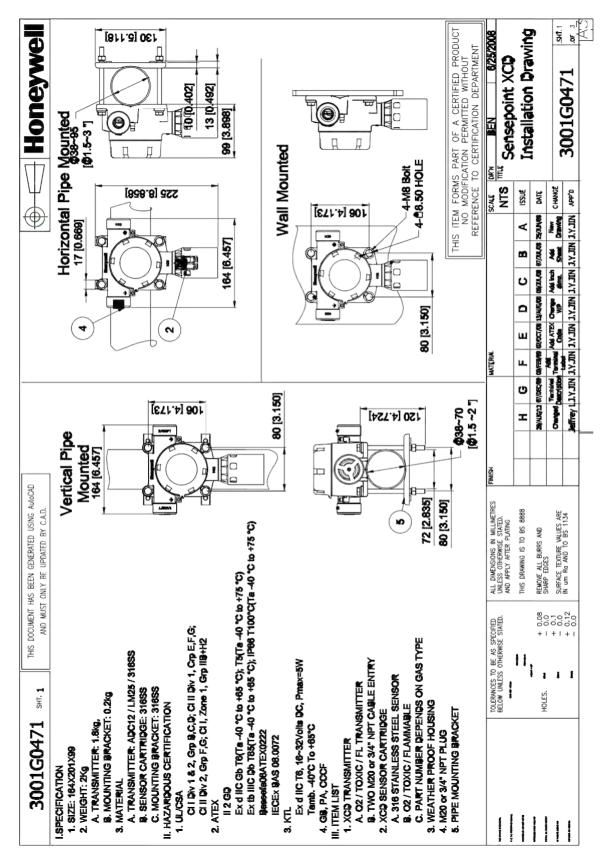
All products are designed and manufactured to the latest internationally recognized standards by Honeywell Analytics under a Quality Management system that is certified to ISO 9001. As such Honeywell Analytics warrants its products against defective parts and workmanship and will repair or (at its option) replace any instruments which are or may become defective under proper use within 12 months from date of commissioning by an approved Honeywell Analytics representative or 18 months from date of shipment from Honeywell Analytics, whichever is the sooner. This warranty does not cover disposable batteries or damage caused by accident, abuse, abnormal operating conditions or poisoning of sensor.

Defective goods must be returned to Honeywell Analytics premises accompanied by a detailed description of any issue. Where return of goods is not practicable Honeywell Analytics reserves the right to charge for any site attendance where any fault is not found with the equipment. Honeywell Analytics shall not be liable for any loss or damage whatsoever or howsoever occasioned which may be a direct or indirect result of the use or operation of the Contract Goods by the Buyer or any Party.

This warranty covers instrument and parts sold to the Buyer only by authorized distributors, dealers and representatives as appointed by Honeywell Analytics. The warranties set out in this clause are not pro rata, i.e. the initial warranty period is not extended by virtue of any works carried out there under.

In no event will Honeywell Analytics be liable for any incidental damages, consequential damages, special damages, punitive damages, statutory damages, indirect damages, loss of profits, loss of revenues, or loss of use, even if informed of the possibility of such damages. Honeywell Analytics liability for any claims arising out of or related to this product will in no case exceed the order value. To the extent permitted by applicable law, these limitations and exclusions will apply regardless of whether liability arises from breach of contract, warranty, tort (including but not limited to negligence), by operation of law, or otherwise.

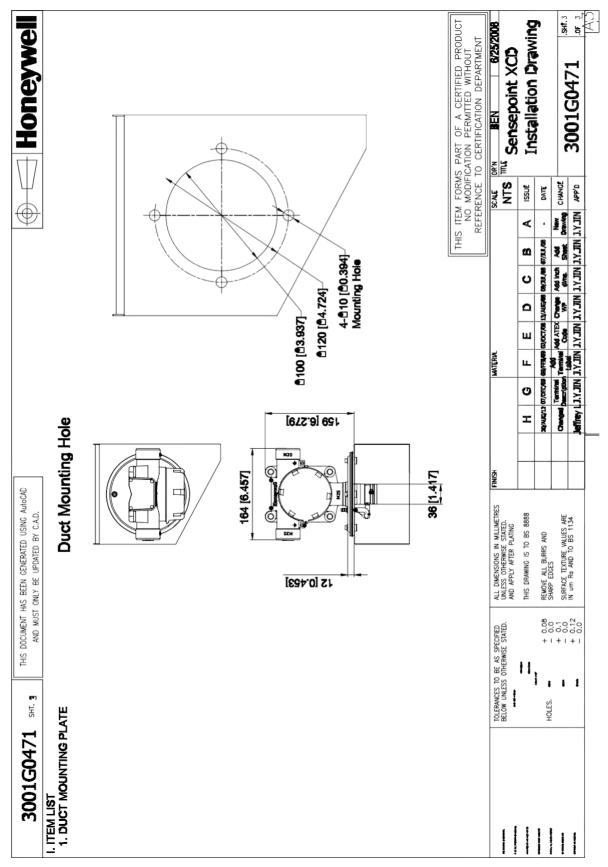
16. Installation Drawing 16.1.Mechanical Installation Drawing



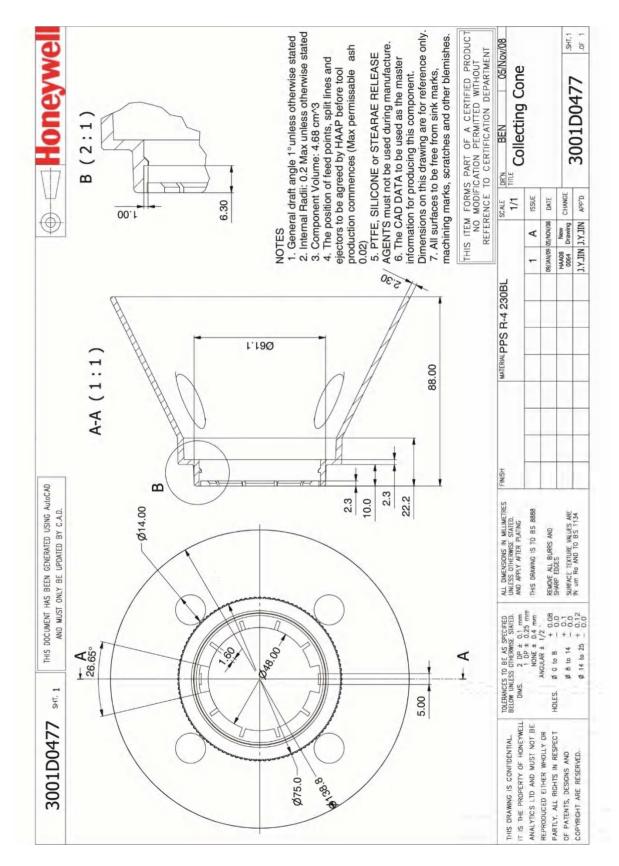
16.2.Electronic Connection Drawing

Honeywell	TRANSMITTER CONNECTIONS Terminal No. Function Power Power 1 Power 3 44-20 mA Digital comm 5 Digital comm 5 Digital comm 6 Digital comm 7 Power 1 Power	TITLE CONCENTION 6/25/2008	Justallation Drawing		3001G0471 SHT 2 TAT 2
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THIS DOCUMENT HAS BEEN GENERATED USING Autocad AND MUST ONLY BE UPDATED BY C.A.D. 3 Wire 4~20mA (Sink) with Relays	Controlie	TOLERANCES TO BE AS SPECPRED ALL DMENSIONS IN MILLIMETRES FINISH BELOW UNLESS OTHERWISE STATED, AND ADDR AND	UNMS. 2 59 2 6.1 mm AND APPLI APPLI APPLI APPLIA	CODE + 0.08 REMOVE ALL BURRS AND	ØB b 14 + 0.1 9 8 b 14 + 0.1 9 18 b 14 + 0.1 10 um Ra AND TO BS 1134 0.0 10 um Ra AND TO BS 1134
3001G0471 SHT. 2 3 Wire 4~20mA (Source) with Relaye	Controller Articles	ĒB		REPRODUCED EITHER WHOLF OR HOLES.	

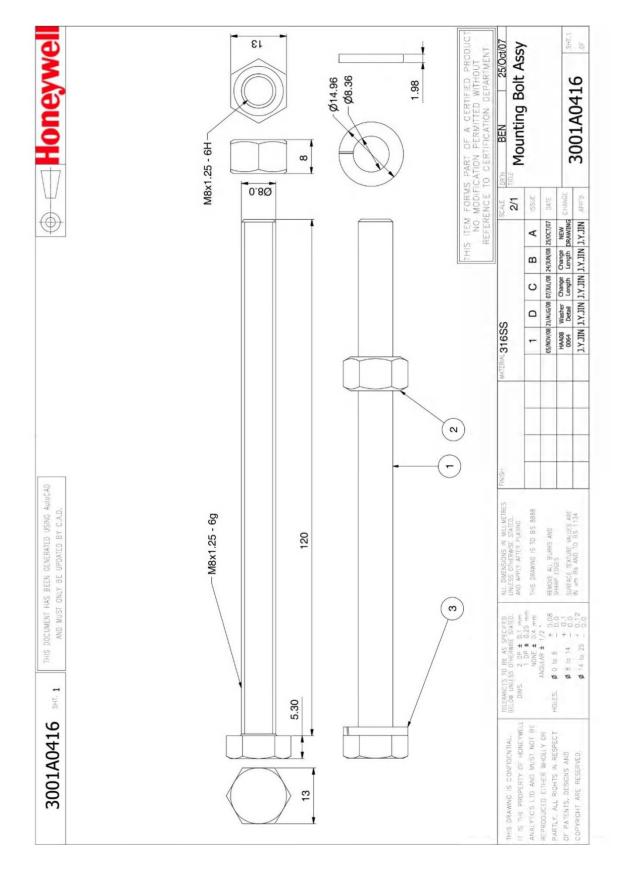
16.3.Duct Mounting Drawing



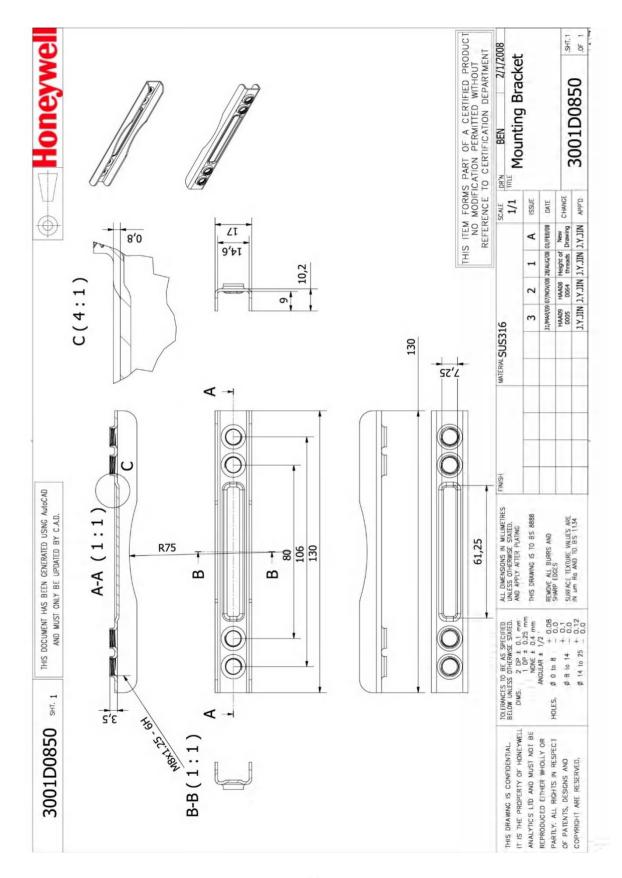
16.4.Collecting Cone Drawing



16.5.Mounting Bolt Assy Drawing



16.6.Mounting Bracket Drawing



17. Certification 17.1. ATEX/UKEX/IECEx Special Conditions for Safe Use

Sensor:

The integral supply cables shall be protected from impact and be suitably terminated.

The attachment thread has a 2.5 mm wide undercut. This shall be taken into consideration if the sensor is attached to a flameproof enclosure in order to maintain the minimum engaged thread length.

Equipotential bonding shall be provided by the mounting arrangements.

The sensor cartridge to housing joint maximum gap is 0.035mm which is less than that permitted. This joint shall not be enlarged in service.

When fitted with the supplied weather guard, the sensor head must be mounted so that the sinter is pointing downward to provide ingress protection IPX6.

The weather guard is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

Transmitter:

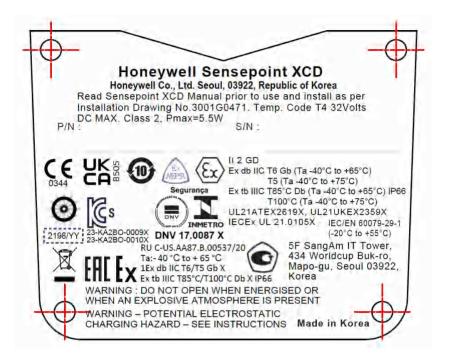
The transmitter has a potential electrostatic charging hazard. To minimize the risk of electrostatic discharge:

- Ground the transmitter adequately
- Install the transmitter in a manner that will prevent accidental electrostatic discharges, e.g. ensure
- that objects do not rub against the housing etc.
- Clean the enclosure with a damp cloth when necessary

17.2. Standard and certification

Certificat	e	Standard
UL	E480011	Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II, Division, Groups E, F & G, Class II, Division 2, Groups F & G40°C to+65°C
ATEX	Sensor head: UL 21 ATEX 2620X Transmitter: UL 21 ATEX 2619X	EN IEC 60079-0:2018 EN IEC 60079-1:2014 EN IEC 60079-31:2014 Sensor head: II 2 GD Ex db IIC T6 Gb (Ta -40°C to +65°C) T4 (Ta -40°C to +75°C) Ex tb IIIC T85°C Db (Ta -40°C to +65°C) IP6X, T135°C (Ta -40°C to +75°C) Transmitter: II 2 GD Ex db IIC T6 Gb (Ta -40°C to +65°C) T5 (Ta -40°C to +75°C) Ex tb IIIC T85°C Db (Ta -40°C to +65°C) IP66 T100°C (Ta -40°C to +75°C)
IECEx	Sensor head: IECEx UL 21.0106X Transmitter: IECEx UL 21.0105X	IEC 60079-0:2017, 7th Ed IEC 60079-1:2014, 7th Ed+Corr.1(2018) IEC 60079-31:2013, 2nd Ed Sensor head: Ex db IIC T6 Gb (Ta -40°C to +65°C) T4 (Ta -40°C to +75°C) Ex tb IIIC T85°C Db (Ta -40°C to +65°C) IP6X, T135°C (Ta -40°C to +75°C) Transmitter: Ex db IIC T6 Gb (Ta -40°C to +65°C) T5 (Ta -40°C to +75°C) Ex tb IIIC T85°C Db (Ta -40°C to +65°C) IP66 T100°C (Ta -40°C to +75°C)
UKEX	UL21UKEX2359X UL21UKEX2360X	

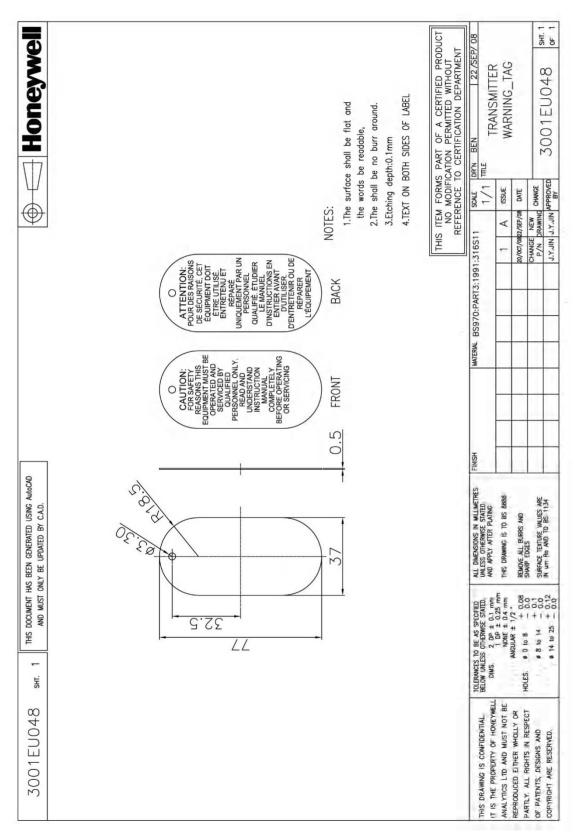
17.3. Sensepoint XCD ATEX/UKEX Name Plate



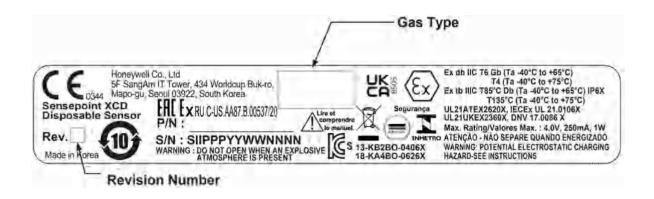
17.4. Sensepoint XCD UL Name Plate

Ψ.	Honeywell Se	nsepoint XC	D
	tics Asia Pacific Co.,		
NÃO ABRA QUANDO EI NÃO ABRA QUANDO UI RISCO POTENCIAL DE Gas Detector for us Electrical Shock, E: CI I Div 1 & 2, Grp I	tb IIIC T85°C Db(-40°C ≤ tb IIIC T100°C Db(-40°C MAATMOSFERA EXPLOSIVA CARGA ELETROSTĂTICA - VI e in Hazardous Locatioi yblosion Hazards Only. 3, C, D; CI II Div 1, Grp E, ; CI I, Zone 1, Grp IIB+H2	ESTIVER PRESENTE EJA INSTRUÇÕES 1s as to fire, F.G; 2 Haz Loc,	E480011 Segurança
P/N :		1	INMETRO
S/N :			DNV 17.0087 X
	XCD Manual Prior to L 2~32Volts DC, Pmax= 5A@250VAC		
Disconnec Keep tight	; To reduce the risk of t the equipment from s y closed when in opera g within 18 inches of th	upply circuit before ation. Conduit runs	opening.

17.5.Sensepoint XCD Warning Tag



17.6.Sensor Cartridges Label



17.7.Special Conditions for Use in European Gas Performance Approval

Sensepoint XCD is approved for European Gas Performance with the following specific conditions:

- IEC/EN 60079-29-1 for CH₄ and C₃H₈ with the measuring range 0 100 % LEL
- EN 45544-1/-3:2015 for CO (0 300 ppm) and H₂S (0 50 ppm)
- EN 50104:2010 for O2 with the measuring range 0 25 % v/v (no inertisation)
- Only 4 20 mA is considered as a safety function. The other outputs are optional signals outside the scope of the European gas performance approval. 4-20 mA output is refreshed at least every two seconds.
- Analogue output signal status as a safety function:

≤ 1 mA: System and other faults2 mA: Start-up, inhibit

4 – 20 mA: Gas reading range (when deadband is on)

22 mA:Over-range

- Analogue output shall be tested at least once a year to verify the operation of safety function. Refer to chapter 9 of this manual for gas calibration and bump test. Refer to chapter 12.2 of this manual for "FORCE CURRENT" menu.
- Sensepoint XCD flammable catalytic sensor would produce higher gas measurement when located in 90° with respect to the air velocity. It is prohibited to install Sensepoint XCD flammable catalytic sensor at 90° with respect to the air velocity for an application requiring IEC/EN 60079-29-1 compliance.

18. Cross Interference and Cross Calibration 18.1.Cross Interference Table for Toxic and Oxygen

This below table shows the relative cross sensitivity of the Sensepoint XCD to other gases. 'Gas Type' indicates the sensor type fitted to the Sensepoint XCD. 'Gas Type Applied' indicates the gas that may be applied to that sensor and the resulting reading.

Gas type	Gas Type Applied	Concentration	Unit	Reading	Unit
0 ₂	Carbon Dioxide	5	% v/v	0.1	% v/v (change O ₂ reading) per % v/v CO ₂
	Ammonia	50	ppm	0	ppm H₂S
	Carbon Monoxide	100	ppm	<2	ppm H₂S
	Carbon Dioxide	5000	ppm	0	ppm H₂S
	Chlorine	0.5	ppm	0	ppm H ₂ S
H ₂ S	Ethylene	100	ppm	0	ppm H ₂ S
	Hydrogen	100	ppm	0	ppm H ₂ S
	Hydrogen Sulfide	10	ppm	10	ppm H ₂ S
	Nitrogen Monoxide	25	ppm	0	ppm H ₂ S
	Nitrogen Dioxide	3	ppm	0	ppm H ₂ S
	Sulfur Dioxide	2	ppm	0	ppm H ₂ S
	Acetone	1000	ppm	0	ppm CO
	Acetylene	40	ppm	80	ppm CO
	Ammonia	100	ppm	0	ppm CO
	Carbon Monoxide	100	ppm	100	ppm CO
	Chlorine	2	ppm	0	ppm CO
СО	Ethanol	2000	ppm	3	ppm CO
	Ethylene	100	ppm	85	ppm CO
	Hydrogen	100	ppm	20	ppm CO
	Hydrogen	25	ppm	0	ppm CO
	Iso-Propanol	200	ppm	0	ppm CO
	Nitrogen Monoxide	50	ppm	8	ppm CO
	Nitrogen Dioxide	800	ppm	20	ppm CO
	Sulfur Dioxide	50	ppm	0.5	ppm CO
	Carbon Monoxide	300	ppm	≤60	ppm H ₂
	Hydrogen Sulfide	15	ppm	<3	ppm H ₂
	Sulfur Dioxide	5	ppm	0	ppm H ₂
H ₂	Nitrogen Monoxide	35	ppm	>10	ppm H ₂
	Nitrogen Dioxide	5	ppm	0	ppm H ₂
	Chlorine	1	ppm	0	ppm H ₂
	Hydrogen Cyanide	10	ppm	»3	ppm H ₂
	Hydrogen Chloride	5	ppm	0	ppm H ₂
	Ethylene	100	ppm	>80	ppm H ₂

Table 9 Cross Interference

18.2.Cross Calibration Flammable Gas Detector

Note: Not a scope for performance approval

For greater accuracy, a catalytic gas detector should be calibrated using a certified gas/air mixture equal to 50 % LEL of the actual target gas intended to be monitored.

However, it is not always practical to obtain every detectable type of hydrocarbon gas in a calibrationready, certified and verifiable form. Therefore, it is possible to carry out a 'cross calibration' using another hydrocarbon gas/air mixture.

When the Sensepoint XCD Combustible LEL sensor is to be calibrated with a gas which is different to the gas or vapour to be detected, the following cross calibration procedure may be followed:

CAUTION

Where the user calibrates any sensor using a different gas, responsibility for identifying and recording calibration rests with the user. Refer to the local regulations where appropriate.

Note: Table 10 lists a selection of hydrocarbon compounds and states a reference figure or 'Star Rating' according to the reaction they produce in relation to other hydrocarbons. An eight-star (8*) gas produces the highest output, while a one-star (1*) gas produces the lowest output.

No.	Gas	Star Rating		
1	Acetone	4*		
2	Ammonia	7*		
3	Benzene	3*		
4	Butanone	3*		
5	Butane	4*		
6	Butyl acetate	1*		
7	Butyl acrylate	1*		
8	Cyclohexane	3*		
9	Cyclohexanone	<1*		
10	Diethyl ether	4*		
11	Ethane	6*		
12	Ethanol	5*		
13	Ethyl acetate	3*		
14	Ethylene	5*		
15	Heptane	3*		
16	Hexane	3*		
17	Hydrogen	6*		
18	Methane	6*		
19	Methanol	5*		
20	MIBK	3*		
21	Octane	3*		
22	Pentane	3*		
23	Propane	5*		
24	Propan-2-ol	4*		
25	Styrene	2*		
26	Tetra hydrafuran	4*		
27	Toluene	3*		
28	Triethylamine	3*		
29	Xylene	2*		

Table 10 Star Rating of Gases

To cross calibrate the Sensepoint XCD flammable gas detector:

Obtain the star rating for both the calibration test gas and the gas to be detected from Table 10

These values may then be used in Table 11 to obtain the required calibration span setting when a 50 % LEL test gas is applied to the detector.

*Rating of	*Rating of Gas to be Detected							
Calibration Gas	8*	7*	6*	5*	4*	3*	2*	1*
8*	50	62	76	95	4	-	-	242
7*	40	50	61	•	96	-	÷	-
6*	33	41	50	- 11	78	98	-	-
5*	26	33	40	50	63	79	100	-
4*	21	26	32	40	50	63	80	-
3*	A	21	26	32	40	50	64	81
2*		-	-	25	31	39	50	64
1*	÷.	÷	7		25	31	39	50

Table 11 Calibration span setting

Note: These settings must only be used with a calibration gas concentration of 50 % LEL.

If a sensor is to be used to detect a gas other than that for which it was calibrated and there is no intention to use an equivalent calibration gas to re-calibrate the sensor, then the required correction factor may be obtained from Table 12

The reading shown on the gas detector controller or transmitter display should be multiplied by this number in order to obtain a more accurate gas concentration result.

Sensor calibrated to	Sensor used to detect							
detect	8*	7*	6*	5*	4*	3*	2*	1*
8*	1.00	1.24	1.52	1.89	2.37	2.98	3,78	4.83
7*	0.81	1.00	1.23	1.53	1.92	2.40	3.05	3.90
6*	0.66	0.81	1.00	1.24	1.56	1.96	2.49	3.17
5*	0.53	0.66	0.80	1.00	1.25	1.58	2.00	2.55
4*	0.42	0.52	0.64	0.80	1.00	1.26	1.60	2.03
3*	0.34	0.42	0.51	0.64	0.80	1.00	1.27	1.62
2*	0.26	0.33	0.40	0.50	0.63	0.79	1.00	1.28
1*	0.21	0.26	0.32	0.39	0.49	0.62	0.78	1.00

Table 12 Correction factors

Note:

Since catalytic sensors require oxygen for correct operation, a mixture of gas in air should always be used for calibration purposes.

Assuming average performance of the sensor, the sensitivity information in Tables 10 to 12 is normally accurate to + or - 30 %.

Working Example:

If the target gas to be detected is 0-100 % LEL Ethylene and the only calibration gas available to recalibrate the sensor is Methane (at 50 % LEL concentration), the procedure is as follows:

Look up the star rating for each gas in Table 10.

Gas No. 14, Ethylene = 5^* Gas no. 18, Methane = 6^*

Then, look up the span settings for a 50 % LEL calibration gas in Table 11 by selecting the row of figures next to the 6* in the 'calibration gas' column. Select the figure in the 5* column of the 'gas to be detected' chapter.

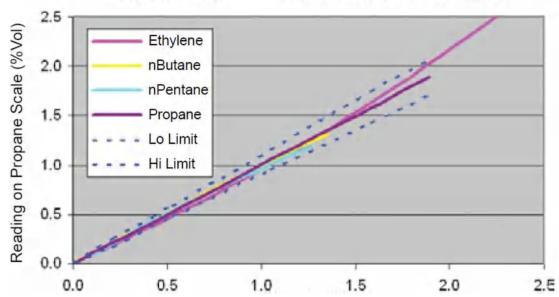
This means that during re-calibration, the span gas setting on the gas detector transmitter or controller should be set to 62 % LEL to give an accurate measuring scale for 0-100 % LEL Ethylene, when using 50 % LEL Methane as the calibration gas.

Contact your local Honeywell Analytics sales or service distributor, or regional office if further clarification or additional information be required.

18.3.Meter Multiplication Factors for Sensepoint XCD-IR Propane

It is possible to apply a linear cross reference factor to the output of a sensor characterized for propane and achieve the results shown in the graph below.

Reasonable accuracy is maintained to at least the 50 % LEL equivalent values of the cross-referred gasses.



XCD IR Propane Sensor (Full scale 2 % v/v or 100 % LEL)

Cross Sensitivity with linear cross-reference factor applied

Diagram 20 . Sensepoint XCD-IR (Propane) Sensor with linear cross-reference factor applied

Use the following multiplying factors to cross-refer to the propane reading:

Gas	Multiplication Factor
Ethylene	3.43
nButane	0.97
nPentane	0.89

Table 13 Multiplying Factors

CAUTION
These factors only apply to gas concentrations expressed in % Volume terms. When using a linear cross-reference factor, the temperature compensation is based upon propane, and there may be errors at temperatures away from the calibration temperature.

Note: Honeywell Analytics recommends that users verify the accuracy of their instruments using test gasses wherever possible. Cross-referred measurements should be used as a guide only, not as absolute values.

Appendix A - Modbus® Protocol A-2

A.1 Modbus and the Sensepoint XCD

The Sensepoint XCD gas detector may be fitted with the optional Modbus board. Information on the Modbus Upgrade Kit can be found in chapter 14 Ordering Information. The Sensepoint XCD supports Modbus/RTU over an RS-485 physical layer. The interface is isolated and includes a switchable 120 Ohm termination resistor. Baud rates 9,600 or 19,200 are supported with 19,200 as the default. Most of the operations that are possible with local user interface can also be performed over the Modbus interface.

See chapter 5.2 and 5.7 for information on installing the optional Modbus hardware. See chapter 12.3.3 Configure Menu – Set ID Settings for information on setting the Modbus baud rate and parity using the local user interface.

The suggested polling interval is 0.2 to 1 seconds depending on cable type, length and connected nodes.

A.2 Modbus Registers

Modbus Register Address	Information	R/W	Туре	Size	Note
30001	Main SW Version of XCD	R	u8	1	
30002	EEP Version of XCD	R	u8	1	
30003	WatchDog s/w Version of XCD	R	u8	2	
30004	Location string	R	12 chars	6	
30010	Modbus slave ID	R	u8	1	
30010				1	Upper byte: Function
	Monitor Status	R	u16		Lower byte: Instrument Mode
30012	Inhibit current(mA)	R	u8	1	20 means 2.0mA
30013	Reserved	R	u16	1	
30014	Active Alarm	R	u32	2	bit 0 Alarm 1 is active bit 1 Alarm 2 is active
30016	Latched Alarm	R	u32	2	bit 0 Alarm 1 is active bit 1 Alarm 2 is active
30018	Active Fault	R	u32	2	bit 0 ~ 4: warnings, W1 ~ W5 bit 5: reserved bit 6 ~ 18: faults, F1 ~ F13 bit 19 ~ 31: reserved
30020	Latched Fault	R	u32	2	bit 0 ~ 4: warnings, W1 ~ W5 bit 5: reserved bit 6 ~ 18: faults, F1 ~ F13 bit 19 ~ 31: reserved
40001	Systern ID code	R	u16	1	Upper Byte: Type Code: 0x25 Lower Byte: My Address
40002	Systern ID code	R	u16	1	Upper Byte: Type Code: 0x25 Lower Byte: My Address: Dummy Spacer
40003	Gas reading	R	f32	2	
40005	Fault and Warning	R	u16	1	Fault = 1100 + Number Warning = Number as is
40006	Alarm, fault and warning state	R	u8	1	bit 0 Alarm 1 is active bit 1 Alarm 2 is active bit 2,3 for future expansion bit 4 Warning is active bit 5 Fault is active bit 6,7 for future expansion Note : Latching relay setting latches Modbus values in register 40006.
40007	Monitor state monitoring	R	u8	1	1: Normal 2: Warm Up after power on 3: Inhibit 12: Calibration
40008	Reserved	R	u16	1	
40009	Calibration Due	R	f32	2	
40011	Measuring Unit	R	u8	1	4: PPM 3: %Vol 5: %LEL 1: mg/m3v
40012	Peak Reading	R	f32	2	Peak Reading
40014	Reserved	R	u16	3	
40017	Temperature (°C)	R	s16	1	
40018	Reserved	R	u16	28	
40046	Measuring Gas name string	R	14 chars	7	
40053	Reserved	R	s16	1	
40054	Temperature (°F)	R	s16	1	
40055	Reserved	R	u16	1	
40056	Relay Status	R	u10 u8	1	1: Energized, 0: De-energized
40050	Power Supply	R	f32	2	
40059	Calibration Interval	R/W	u16	1	
40059	Alarm Type	R/W	u10 u8	1	High nibble: Alarm 2 Type Low nibble: Alarm 1 Type 0: Disable, 1: Rising, 2: Falling
40061	Inhibit timeout	R/W	u16	1	
40062	Relay configuration	R/ W	u16	1	Bit 0, 1: Relay 1 Type Bit 2, 3: Relay 2 Type Bit 4, 5: Relay 3 Type Bit 6 ~ 8: Relay 1 Status ~ Relay 3 Status Bit 9 : Relay latch option

A.3 User Configurable Parameter List

Menu	Item	Description
Set Calibration	Zero calibration level	Set zero calibration gas level
Set Calibration	Span calibration level	Set span calibration gas level
Select Sensor	Type of sensor	Type of sensor from the sensor list.
		Available only for the flammable / IR sensors.
Select Gas	Type of gas	Type of gas from the sensor list.
		Available only for the flammable / IR sensors.
Set Range	Measuring range	Measuring range
Configure Inhibit	Inhibit current	Inhibit current
Configure Inhibit	Inhibit timeout	Inhibit timeout
Set Password	Password	Password required for entering the Configuration mode
Set Calibration Interval	Calibration Interval	Calibration Interval
Set Alarms	Alarm 1 level	Alarm 1 level
Set Alarms	Alarm 1 rising/falling option	Alarm 1 rising/falling option
Set Alarms	Alarm 2 level	Alarm 2 level
Set Alarms	Alarm 2 rising/falling option	Alarm 2 rising/falling option
Set Relays	Relay 1 type	Type of relay 1 (Alarm 1, Alarm 2, Fault, Inhibit)
Set Relays	Relay 1 action	Type of relay 1 action (deenergize, energize)
Set Relays	Relay 2 type	Type of relay 2 (Alarm 1, Alarm 2, Fault, Inhibit)
Set Relays	Relay 2 action	Type of relay 2 action (deenergize, energize)
Set Relays	Relay 3 type	Type of relay 3 (Alarm 1, Alarm 2, Fault, Inhibit)
Set Relays	Relay 3 action	Type of relay 3 action (deenergize, energize)
Relay Operation	Relay on delay time	Relay on delay time
Relay Operation	Relay off delay time	Relay off delay time
Relay Operation	Relay latch option	Relay latch option
Set Location	Location tag	Location tag
Set Temperature Unit	Temperature unit	Temperature unit
Set Deadband	Deadband option	Deadband is included in the measuring range or not

A.4 Ranges of User Configurable Parameter

Menu Item		Sub Item	02	со	H2S	CH4 - CAT (cb-3)	Propane -CAT (cb-4)	CH4 -IR (Ir-3)	Propane - IR (Ir-4)
Set Calibration	Zero a	nd span factor	The zero fa	ctor and spa	an factor are	e updated b	y an interna	l calibratior	algorithm.
		Default	N/A	N/A	N/A	cb-4	cb-4	lr-3	lr-4
Select Sensor		Item 1	N/A	N/A	N/A	lr-7	lr-7		
		Item 11	N/A	N/A	N/A	cb-3	cb-3		
		Default				str6	str6	mEt	Prop
		Item 1	N/A	N/A	N/A	str1	str1	mEt	Prop
		Item 2	N/A	N/A	N/A	str2	str2		
		Item 3	N/A	N/A	N/A	str3	str3		
Select Gas		Item 4	N/A	N/A	N/A	str4	str4		
		Item 5	N/A	N/A	N/A	str5	str5		
		Item 6	N/A	N/A	N/A	str6	str6		
	Item 7		N/A	N/A	N/A	str7	str7		
	Item 11		N/A	N/A	N/A	str8	str8		
	Default		N/A	300	50	100	100	100	100
Set Range	Min		N/A	100	10	20	10	20	20
	Max		N/A	1000	100	100	100	100	100
	Current	Default	2	2	2	2	2	2	2
		Min	2	2	2	2	2	2	2
Configure		Max	17.4	4	4	4	4	4	4
Inhibit	t	Default	0	0	0	0	0	0	0
	Timeout	Min	0	0	0	0	0	0	0
	Г	Мах	60	60	60	60	60	60	60
		Default	0	0000	0000	0000	0000	0000	0000
Set Password		Min	0	0000	0000	0000	0000	0000	0000
		Max	999	9999	9999	9999	9999	9999	9999
		Default	180	180	180	180	180	180	180
Set Calibration Interval		Min	365	365	365	365	365	365	365
interval		Max	30	30	30	30	30	30	30
		level - Default	19.5	100	10	20	20	20	20
Set Alarms	Alarm 1	level - Min	5	15	1	10	10	10	10
	1	level - Max	25	300	50	100	100	100	20

Menu Item		Sub Item	02	со	H2S	CH4 - CAT (cb-3)	Propane -CAT (cb-4)	CH4 -IR (Ir-3)	Propane - IR (Ir-4)
		Func Default	rise	rise	rise	rise	rise	rise	rise
		Item 1	rise	rise	rise	rise	rise	rise	rise
		Item 2	fall	fall	fall	fall	fall	fall	fall
		Item 3	none	none	none	none	none	none	none
		level - Default	23.5	200	20	40	40	40	40
		level - Min	5	15	1	10	10	10	10
		level - Max	2	300	50	100	100	100	40
	Alarm 2	Func Default	rise	rise	rise	rise	rise	rise	rise
	1	Item 1	rise	rise	rise	rise	rise	rise	rise
		Item 2	fall	fall	fall	fall	fall	fall	fall
		Item 3	none	none	none	none	none	none	none
		Func Default	7	AL1	AL1	AL1	AL1	AL1	AL1
	Relay 1	Item 1	AL1	AL1	AL1	AL1	AL1	AL1	AL1
		Item 2	AL2	AL2	AL2	AL2	AL2	AL2	AL2
		Item 3	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb
		Item 4	Flt	Flt	Flt	Flt	Flt	Flt	Flt
		Oper Default	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn
		Item 1	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn
		Item 2	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg
		Func Default	AL2	AL2	AL2	AL2	AL2	AL2	AL2
		Item 1	AL1	AL1	AL1	AL1	AL1	AL1	AL1
Cat Dalava		Item 2	AL2	AL2	AL2	AL2	AL2	AL2	AL2
Set Relays	Relay 2	Item 3	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb
	Rela	Item 4	Flt	Flt	Flt	Flt	Flt	Flt	Flt
		Oper Default	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn
		Item 1	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn
		Item 2	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg
		Func Default	Flt	Flt	Flt	Flt	Flt	Flt	Flt
		Item 1	AL1	AL1	AL1	AL1	AL1	AL1	AL1
	iy 3	Item 2	AL2	AL2	AL2	AL2	AL2	AL2	AL2
	Relay 3	Item 3	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb	Inhb
		Item 4	Flt	Flt	Flt	Flt	Flt	Flt	Flt
		Oper Default	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg

Menu Item	Sub Item		02	со	H2S	CH4 - CAT (cb-3)	Propane -CAT (cb-4)	CH4 -IR (Ir-3)	Propane - IR (Ir-4)		
		Item 1	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn	dEEn		
		Item 2	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg	Enrg		
	/	Default	0	0	0	0	0	0	0		
	On delay	Min	0	0	0	0	0	0	0		
	0	Max	180	180	180	180	180	180	180		
	/	Default	0	0	0	0	0	0	0		
Relay Operation	Off delay	Min	0	0	0	0	0	0	0		
		Max	300	300	300	300	300	300	300		
	Relay latch	Default	no	no	no	no	no	no	no		
		Item 1	no	no	no	no	no	no	no		
		Item 2	yes	yes	yes	yes	yes	yes	yes		
		Default	0000000000								
Set Location		Min/Max	A string consisting of 12 ASCII characters.								
		Default	On	On	On	On	On	On	On		
Deadband		Item 1	On	On	On	On	On	On	On		
		Item 2	Off	Off	Off	Off	Off	Off	Off		
		Default	°C	°C	°C	°C	°C	°C	°C		
Set Temperature		ltem1	°C	°C	°C	°C	°C	°C	°C		
Unit		ltem2	°F	°F	°F	°F	°F	°F	°F		

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Issue 15 11/2023 3001M5001 SPXCDHMANEN © 2023 Honeywell Analytics

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12573