Sensepoint XCD

Flammable, toxic and Oxygen gas detector for industrial applications

Sensepoint XCD

The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and Oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnet switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

One-Stop Shop
- Flammable (catalytic or infrared), toxic and Oxygen versions available
- New and retrofit applications
- Suitable for indoor or outdoor use
- Stainless steel or aluminium explosion-proof housing options
- IP66 as standard

Proven and Reliable Sensor Technology
- Surecell™ electrochemical sensors
- Poison immune infrared sensors
- Poison resistant catalytic bead sensors
- Long life sensors

Global Approvals
- European, North American and Asian
- Compliant with ATEX, IECEx, UL/c-UL, KTL, PA, GB and CCCF standards

Easy to Use
- User friendly and intuitive tri-colour backlit display with digits, bar graph and icons
- Fully configurable via magnetic switches
- Optional remote sensor mounting*
- Selectable sink or source 4-20mA output
- Auto-inhibit during maintenance
- MODBUS communications for remote diagnostics/configuration*

Cost Effective
- Common transmitter platform
- Minimal training required
- Reduced spares
- Non-intrusive, one-man operation
- Plug-in sensor replacement
- MODBUS multi drop option offers cabling savings*

Simple Installation
- Plug-in display module removes to give access to terminal area
- Integral mounting bracket
- 2 x M20 or ¾" NPT cable/conduit entries (certification dependent)
- Removable plug/socket type terminal blocks for ease of wiring
- Sink/source switch to suit preferred wiring topology

Range of Optional Accessories
- Remote sensor mounting kit*
- Remote sensor gassing kit
- Duct mounting kit
- Calibration gas flow housing
- Collecting cone

*Contact Honeywell Analytics for availability of these options.

A tri-colour backlit LCD clearly indicates the unit's status at a glance, even from a distance. A steady green backlight indicates normal operation, flashing yellow indicates fault and flashing red indicates an alarm.

All detectors are supplied pre-configured and include 2 programmable alarm relays, 1 programmable fault relay as well as an industry standard 4-20mA output (sink or source selectable) and MODBUS*.

The scale, range, relay operation, alarm set point and electronic tag number of the detector can be adjusted using the transmitter's LCD and non-intrusive magnetic switches. Outputs are automatically inhibited during adjustment, thereby reducing the risk of false alarm at the control panel during maintenance.

Sensepoint XCD has an integral mounting plate for surface mounting or can be mounted to a horizontal or vertical pipe using the optional pipe mounting bracket. Electrical installation can be made using either conduit or cable with suitable mechanical protection. Two M20 or ¾"NPT entries are provided (depending on certification). A weatherproof cap is also included for use in the harshest outdoor conditions. Other optional accessories include a sunshade/deluge protection, duct mounting kit, collecting cone and remote mounting sensor socket*.

Sensepoint XCD ensures easy installation and the fastest routine operation by removing the need for hot work permits in hazardous areas. Using easy to replace plug-in sensors, downtime is also reduced and on-going costs are minimised through the use of poison resistant flammable sensors, poison immune infrared Hydrocarbon sensors and patented Surecell™ toxic sensors.

1. Cover
2. Display module
3. Terminal area
4. Blanking plug
5. Transmitter
6. Plug-in XCD sensor
7. Sensor retaining ring
8. Integral mounting plate
9. Weather protection assembly
10. Cable/conduit entry (x2)
11. Certification label

Typical Applications
- Industrial manufacturing facilities
- Power plants
- Waste water facilities
- Utilities
- Food and beverage production
- Refineries and chemical plants
- Onshore oil and gas terminals
- Production platforms
- Exploration and drilling

Sensepoint XCD Overview

There are three different types of the XCD transmitter for use with three different families of sensors.
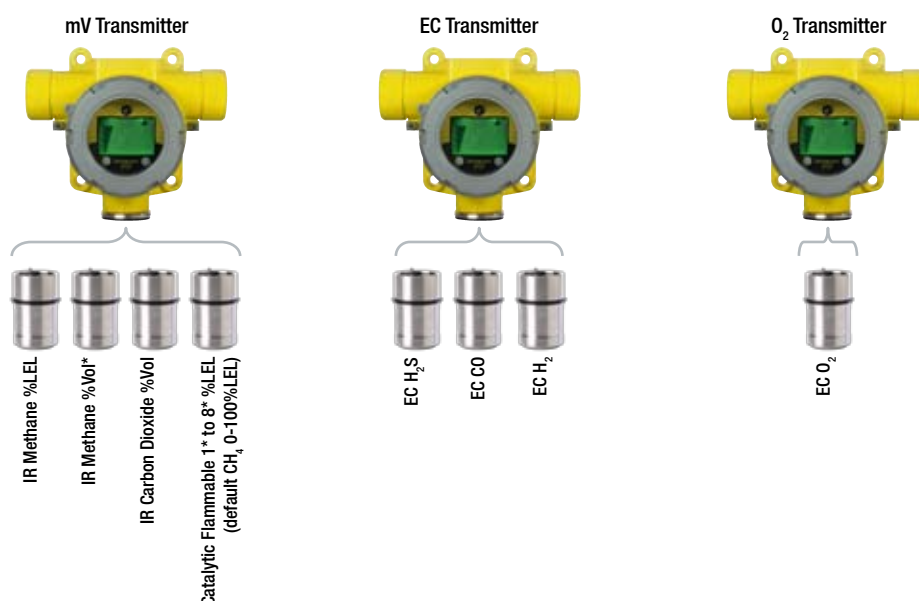
The mV type transmitter is for use with the mV family of XCD sensors including catalytic sensors to detect flammable gases in the range 0-100%LEL and infrared (IR) sensors for detection of Hydrocarbon gases in the range 0-100%LEL and 0-100%Vol*, as well as Carbon Dioxide (CO_2) in the range 0-2%Vol.

The EC type transmitter is for use with the EC family of XCD sensors including Carbon Monoxide (CO), Hydrogen Sulphide, (H_2S) and Hydrogen (H_2).

The Oxygen transmitter is for use with the Oxygen (O_2) XCD sensors.

A transmitter can auto-recognise any sensor from within its sensor family. The sensor simply plugs into the bottom of the transmitter and the transmitter automatically configures itself accordingly.

Sensepoint XCD Sensor Families, Gases and Ranges						
	Gas	**User Selectable Full Scale Range**	**Default Range**	**Steps**	**Selectable Cal Gas Range**	**Default Cal Point**
mV	**Catalytic Bead Sensors**				30 to 70% of selected full scale range	
	Flammable 1 to 8*	20 to 100%LEL	100%LEL	10%LEL		50%LEL
	Infrared Sensors					
	Methane	20 to 100%LEL	100%LEL	10%LEL		50%LEL
	Methane	20 to 100%Vol.*	100%Vol.	10%Vol.		50%Vol.
	Carbon Dioxide	2.00%Vol. only	2.00%Vol.	n/a		1.00%Vol.
EC	**Electrochemical Sensors**					
	Hydrogen Sulphide	10.0 to 100.0ppm	50.0ppm	0.1ppm		25ppm
	Carbon Monoxide	100 to 1,000ppm	300ppm	100ppm		100ppm
	Hydrogen	1,000ppm only	1,000ppm	n/a		500ppm
O_2	Oxygen	25.0%Vol. only	25.0%Vol.	n/a	20.9%Vol. (Fixed)	20.9%Vol.

(Sensor Family column spans mV, EC and O_2 rows)

mV Transmitter

EC Transmitter

O_2 Transmitter

IR Methane %LEL

IR Methane %Vol*

IR Carbon Dioxide %Vol

Catalytic Flammable 1* to 8* %LEL (default CH_4 0-100%LEL)

EC H_2S

EC CO

EC H_2

EC O_2

Ready, Steady, Go!

Sensepoint XCD uses three instantly recognisable 'traffic light' colours to indicate its status. The large tri-colour backlit LCD is steady green to indicate normal operation, flashes yellow to indicate a fault/warning and flashes red to indicate an alarm. This allows anyone in the area to clearly see at a glance the status of any detector. This can be particularly useful to identify detector status if the detector is located in a difficult to access area or if a number of detectors are located in the same area.

Normal

Fault/Warning

Alarm

*Contact Honeywell Analytics for availability

Installation

## Outline Installation Dimensions

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, 40.0-80.0mm (1.6 to 3.1") in diameter/cross section. The pipe mounting bracket accessory (optional) may be used for this purpose.

User cable entries shown (2 x M20) are for ATEX/IECEx version enclosures. UL/c-UL versions have 2 x ¾"NPT conduit entries. A suitable blanking plug is supplied which must be used to seal any unused entry. The blanking plug must be suitably sealed to maintain the IP rating of the detector.

Ø8.5   80   12   106   225   164   99   M20   M20   M25
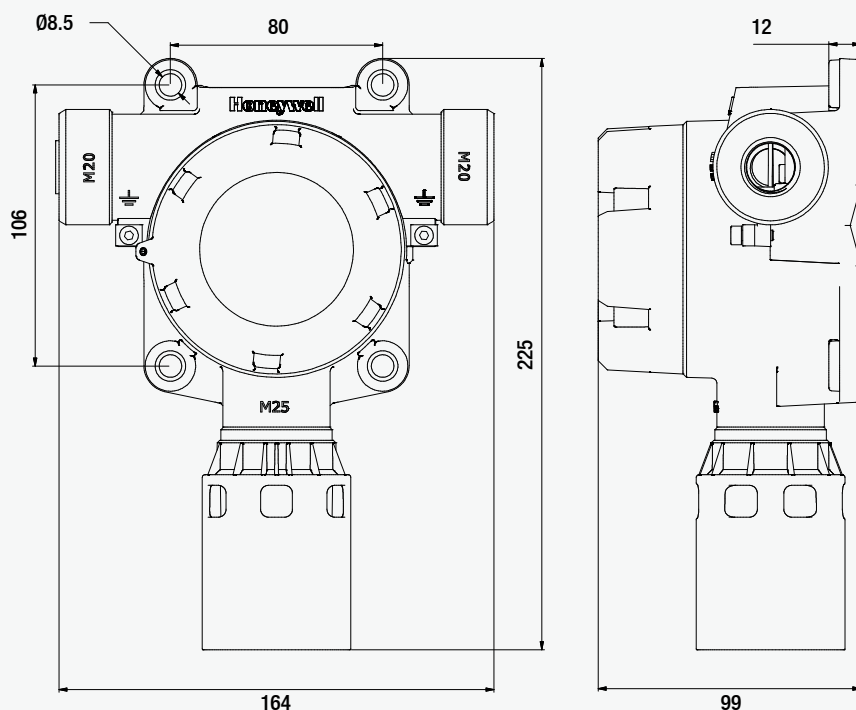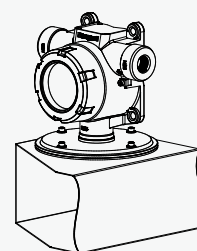
All dimensions in mm.
1" = 25.4mm

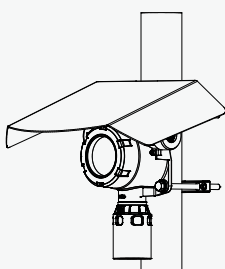## Installation Options
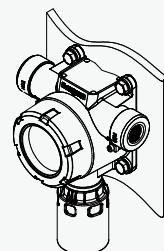
Wall Mounted
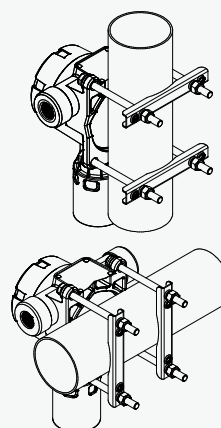
Vertical or horizontal pipe mounted
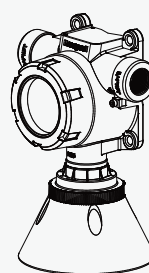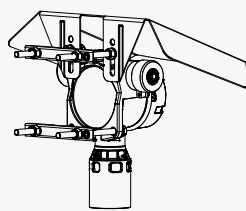**(Using optional pipe mounting bracket)**
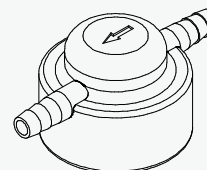
Duct Mounted

Other Accessories

Various accessories are available for different applications:

Sunshade/Deluge protection

Collecting Cone

Gassing Cap

Electrical

Sensepoint XCD is designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitable mechanically protected cable and glands or conduit. Use 0.5mm² (20AWG) to 2.5mm² (~13AWG) cross sectional area cable as needed to ensure minimum operating voltage at the detector, depending on installed cable length. Cable diameter should be selected to maintain the minimum required voltage for the longest installed cable length under maximum power.

Terminal Module Connections

Terminal Number	Marking	Connection	Description
1	24V	+VE Supply (16 - 32VDC)	Controller Connections
2	0V	-VE Supply (0VDC)	
3	4~20mA	Current Output Signal	
4	COM	Drain	MODBUS RTU. RS485 (Pending)
5	TxD	MODBUS B (+)	
6	RxD	MODBUS A (-)	
7	RLY1/NC	Normally Closed	Programmable Relay 1 (Default A1)
8	RLY1/COM	Common	
9	RLY1/NO	Normally Open	
10	RLY2/NC	Normally Closed	Programmable Relay 2 (Default A2)
11	RLY2/COM	Common	
12	RLY2/NO	Normally Open	
13	RLY3/NC	Normally Closed	Programmable Relay 3 (Default Fault)
14	RLY3/COM	Common	
15	RLY3/NO	Normally Open	

Internal Earth/ Ground Point
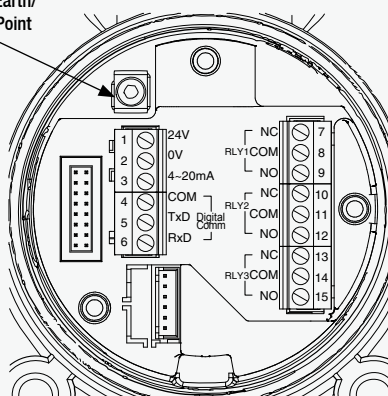
Terminal Module
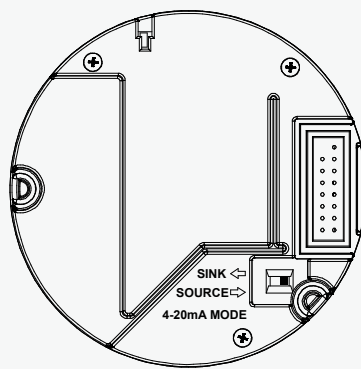
Puck Rear View

Note: Terminal Blocks are plug/socket type and may be removed to ease wiring.

Typical Cable Lengths

| Typical Cable Data			Maximim Cable Length					
Cable Size (Cross Sectional Area)	Cable Resistance		Catalytic		EC		IR	
	Ω/km	Ω/mi	Metres	Feet	Metres	Feet	Metres	Feet
0.5mm² (20AWG*)	36.8	59.2	356	1167	478	1568	420	1379
1.0mm² (17AWG*)	19.5	31.4	671	2201	902	2956	793	2599
1.5mm² (16AWG*)	12.7	20.4	1031	3387	1384	4549	1217	4000
2.0mm² (14AWG*)	10.1	16.3	1296	4239	1741	5694	1531	5006
2.5mm² (13AWG*)	8	12.9	1636	5356	2197	7194	1932	6326

Note: Table given for guidance only. Users should calculate maximum distances using actual data for cable being used. Typical calculation assumes minimum guaranteed controller supply of 24VDC, minimum detector voltage of 16VDC and maximum power supply under full alarm. R_L (max) is 250ohms.

Wiring Schematics

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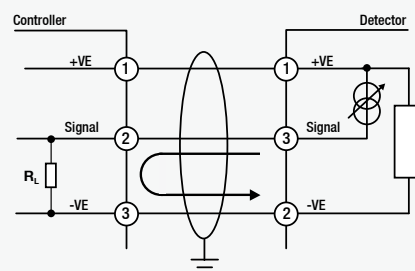
XCD Source Configuration
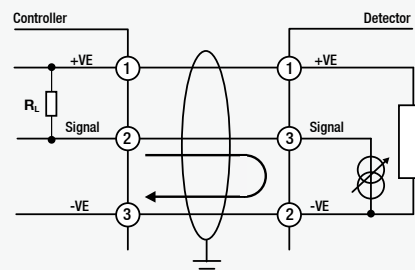
XCD Sink Configuration

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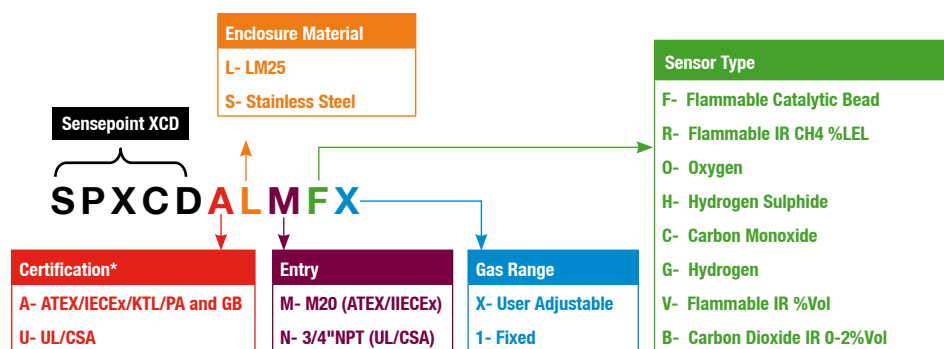
Technical Summary

Sensepoint XCD Detector

| Use | 3 wire, 4-20mA and RS485 MODBUS* output fixed point detector with in-built alarm and fault relays for the protection of personnel and plant from flammable, toxic and Oxygen hazards. Incorporating a transmitter with local display and fully configurable via non-intrusive magnetic switch interface. Wide range of local and remote sensors available. |

Electrical

	Input Voltage Range	16 to 32VDC (24VDC nominal)
	Max Power Consumption	Maximum power consumption is dependent on the type of gas sensor being used. Electrochemical cells = 3.7W, IR = 3.7W and catalytic = 4.9W. Maximum inrush current = 800mA at 24VDC
	Current Output	Sink or source
	≥0.0<1.0mA	Fault
	2.0mA or 4.0mA (17.4mA)	Inhibit (during configuration/user settings)
	4.0mA to 20.0mA	Normal gas measurement
	22.0mA	Maximum over range
	Terminals	15 x screw terminals suitable for wire diameter 0.5mm² to 2.5mm² (20AWG to 14AWG)
	Relays	3 x 5A@250VAC. Selectable normally open or normally closed (switch) and energised/de-energised (programmable) Alarm relays default normally open/de-energised. Fault relay default normally open/energised
	Communication	RS485, MODBUS RTU (Pending)

Construction

Material	Housing	Epoxy painted aluminium alloy LM25 or 316 stainless steel
	Sensor	316 stainless steel
	Weather Protection	Plastic
Weight (approx)	Aluminium Alloy LM25	2.0kg (4.4lbs)
	316 Stainless Steel	5.0kg (11lbs)
Mounting	Integral mounting plate with 4 x mounting holes suitable for M8 bolts	
	Optional pipe mounting kit for horizontal or vertical pipe Ø1.5 to 3" (2" nominal)	
Entries	European ATEX/IECEx versions: 2 x M20 cable entries	
	North American UL/c-UL versions: 2 x ¾"NPT conduit entries. Suitable blanking plug supplied for use if only 1 entry used. Seal to maintain IP rating	

Detectable Gases and XCD Sensor Performance

Gas	User Selectable Full Scale Range	Default Range	Steps	User Selectable Cal Gas Range	Default Cal Point	Response Time (T90) Secs	Accuracy	Operating Temperature*		Default Alarm Points	
								Min	Max	A1	A2
Electrochemical Sensors											
Oxygen	25.0%Vol. only	25.0%Vol.	n/a	20.9%Vol. (Fixed)	20.9%Vol.	<30	<+/-0.5%Vol.	-20°C / -4°F	55°C / 131°F	19.5%Vol. ▼	23.5%Vol. ▲
Hydrogen Sulphide	10.0 to 100.0ppm	50.0ppm	1ppm		25ppm	<50	<+/-1ppm	-20°C / -4°F	55°C / 131°F	10ppm ▲	20ppm ▲
Carbon Monoxide	100 to 1,000ppm	300ppm	100ppm		100ppm	<30	<+/-6ppm	-20°C / -4°F	55°C / 131°F	100ppm ▲	200ppm ▲
Hydrogen	1,000ppm only	1,000ppm	n/a		500ppm	<65	<+/-25ppm	-20°C / -4°F	55°C / 131°F	200ppm ▲	400ppm ▲
Catalytic Bead Sensors											
Flammable 1 to 8*	20 to 100%LEL	100%LEL	10%LEL	30 to 70% of selected full scale range	50%LEL	<25	<+/-1.5%LEL	-20°C / -4°F	55°C / 131°F	20%LEL ▲	40%LEL ▲
Infrared Sensors											
Methane	20 to 100%LEL	100%LEL	10%LEL		50%LEL	<40	<+/-1.5%LEL	-20°C / -4°F	50°C / 122°F	20%LEL ▲	40%LEL ▲
Methane*	20 to 100%Vol.	100%Vol.	10%Vol.		50%Vol.	<40	<+/-1%Vol.	-20°C / -4°F	50°C / 122°F	20%Vol. ▲	40%Vol. ▲
Carbon Dioxide	2.00%Vol.	2.00%Vol.	n/a		1.00%Vol.	<40	<+/-0.04%Vol.	-20°C / -4°F	50°C / 122°F	0.40%Vol. ▲	0.80%Vol. ▲

▲ - Rising Alarm   ▼ - Falling Alarm

NOTES
Performance data is: 1. Taken at nominal 20°C, 50%RH. 2. Applicable over the range 10 to 90% full scale. 3. Measured on units calibrated at 50% full scale. 4. Accuracy at 10% of default full scale (typical A1 alarm) of applied gas, or minimum (whichever is greater). 5. Measured at 500ml/min for IR, Toxics and O₂, 1 Ltr/min for Catalytic bead using the calibration cup (S3KCAL).
*Extended operating temperature range of -40°C to +65°C (-40°F to +149°F) for all sensors 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). Long term operation at this range may cause decline in sensor performance. Contact Honeywell Analytics for any additional data or details.

Certification*

European	ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66
International	IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66
China	GB Ex d IIC T4 GB3836.1&2 -2000, PA, CCCF
Korea	KTL Ex d IIC T6 (-40°C to +65°C)
North America	UL/c-UL - Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II, Division 1, Groups E, F & G, Class II, Division 2, Groups F & G. -40°C to +65°C
EMC	CE: EN50270:2006 EN6100-6-4:2007
Performance	ATEX, IEC/EN60079-29-1:2007, EN45544, EN50104, EN50271 China: PA Pattern Measurement (for transmitter and toxic gas sensors) "CCCF" Shenyang for Flammable (fire dept approval) CSA C22.2-152

*Contact Honeywell Analytics for availability

Environmental	
IP Rating	IP66 in accordance with EN60529:1992
Certified Temperature Range	-40ºC to +65ºC (-40ºF to +149ºF) Note: The detector display may become illegible at temperatures below -20°C, but the detector continues its gas monitoring function. The display is not damaged and recovers when the temperature rises back above -20°C.
Operating Humidity	Continuous 20-90%RH (non-condensing), Intermittent 0-99%RH (non-condensing)
Operating Pressure	90-110kPa
Storage Conditions	-25°C to +65°C (-13°F to 131°F)

Ordering Information	
Standard Supply	Sensepoint XCD is supplied complete with integral wall mounting plate, 2 x M20 cable entry (ATEX/IECEx) or 2 x ¾"NPT conduit entries (UL/cUL), 1 x M20 or 1 x ¾"NPT plug, Allen key for locking screw, weatherproof cap, operating magnet, sensor cartridge with retainer, quick start guide and instruction manual CD. Default settings, ranges and calibrations are 100% tested at the factory. Each unit is supplied with a calibration and test certificate.
Shipping Details	Shipping carton dimensions: L312mm (12.3") x W223mm (8.8") x D110mm (4.3") Approximate weight: Aluminium 2.5kg (5.5lbs), Stainless Steel 5.5kg (12.1lbs)

Enclosure Material
L- LM25
S- Stainless Steel

Sensepoint XCD

S P X C D A L M F X

Sensor Type
F- Flammable Catalytic Bead
R- Flammable IR CH4 %LEL
O- Oxygen
H- Hydrogen Sulphide
C- Carbon Monoxide
G- Hydrogen
V- Flammable IR %Vol
B- Carbon Dioxide IR 0-2%Vol

Certification*
A- ATEX/IECEx/KTL/PA and GB
U- UL/CSA

Entry
M- M20 (ATEX/IIECEx)
N- 3/4"NPT (UL/CSA)

Gas Range
X- User Adjustable
1- Fixed

*Other Asian and Chinese approvals available.
Contact Honeywell Analytics for more information.

Sensepoint XCD Detector ATEX/IECEx/KTL, PA & GB (Aluminium LM25)*	
SPXCDALMFX	ATEX/IECEx/KTL/PA and GB approved SP XCD Flammable CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with LM25, M20 Entry
SPXCDALMRX	ATEX/IECEx/KTL/PA and GB approved SP XCD CH_4 (Methane) IR 0-100%LEL (20 to 100%LEL, 10%LEL) with LM25, M20 Entry
SPXCDALMO1	ATEX/IECEx/KTL/PA and GB approved SP XCD Oxygen 25.0%/Vol. with LM25, M20 Entry
SPXCDALMHX	ATEX/IECEx/KTL/PA and GB approved SP XCD Hydrogen Sulphide 0-50ppm (10.0 to 100.0ppm, 1ppm) with LM25, M20 Entry
SPXCDALMCX	ATEX/IECEx/KTL/PA and GB approved SP XCD Carbon Monoxide 0-300ppm (100-1000ppm, 100ppm) with LM25, M20 Entry
SPXCDALMG1	ATEX/IECEx/KTL/PA and GB approved SP XCD Hydrogen 0-1000ppm with LM25, M20 Entry
SPXCDALMV1	ATEX/IECEx/KTL/PA and GB approved SP XCD Methane IR 0-100%Vol. with LM25, M20 Entry
SPXCDALMB1	ATEX/IECEx/KTL/PA and GB approved SP XCD Carbon Dioxide IR 0-2.00%Vol. with LM25, M20 Entry

Sensepoint XCD Detector ATEX/IECEx/KTL, PA & GB (316 Stainless Steel)*	
SPXCDASMFX	ATEX/IECEX and AP approved SP XCD Flammable CAT 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry
SPXCDASMRX	ATEX/IECEX and AP approved SP XCD CH_4 (Methane) IR 0-100%LEL (20 to 100%LEL, 10%LEL) with 316SS, M20 Entry
SPXCDASMO1	ATEX/IECEX and AP approved SP XCD Oxygen 25.0%/Vol. with 316SS, M20 Entry
SPXCDASMHX	ATEX/IECEX and AP approved SP XCD Hydrogen Sulphide 0-50ppm (10.0 to 100.0ppm, 1ppm) with 316SS, M20 Entry
SPXCDASMCX	ATEX/IECEX and AP approved SP XCD Carbon Monoxide 0-300ppm (100-1000ppm, 100ppm) with 316SS, M20 Entry
SPXCDASMG1	ATEX/IECEX and AP approved SP XCD Hydrogen 0-1000ppm with 316SS, M20 Entry
SPXCDASMV1	ATEX/IECEX and AP approved SP XCD Methane IR 0-100%Vol. with 316SS, M20 Entry
SPXCDASMB1	ATEX/IECEX and AP approved SP XCD Carbon Dioxide IR 0-2.00%Vol. with 316SS, M20 Entry

Optional Accessories		Spare XCD Sensors (316 Stainless Steel)	
S3KCAL	Calibration cup	SPXCDXSFXSS	Flammable CAT 0-100%LEL (20 to 100%LEL, 10%LEL)**
SPXCDCC	Collecting cone for use with lighter than air gases	SPXCDXSRXSS	Methane IR 0-100%LEL (20 to 100%LEL, 10%LEL)**
SPXCDDMK	Duct mounting kit	SPXCDXSO1SS	Oxygen 25.0%/Vol. only
SPXCDHMANEN	Hard copy manual in English	SPXCDXSHXSS	Hydrogen Sulphide 0-50ppm (10.0 to 100.0ppm, 1ppm)**
SPXCDMTBR	Mounting bracket (inc. bolts, nuts, brackets)	SPXCDXSCXSS	Carbon Monoxide 0-300ppm (100-1000ppm, 100ppm)**
SPXCDSDP	Sunshade/Deluge Protection	SPXCDXSG1SS	Hydrogen 0-1000ppm only
00780-A-0100	ATEX approved junction box (Explosion-proof)	SPXCDXSV1SS	Methane IR 0-100%Vol. only
		SPXCDXSB1SS	Carbon Dioxide IR 0-2.00%Vol. only

*For UL/c-UL versions simply change the letters in the part number for certification and entry e.g. first part number in table above would become SPXCDULNFX.
**For further explanation refer to "Detectable Gases and XCD Sensor Performance" table on page 6.

Our Product Range

Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

» Detection of flammable, oxygen and toxic gases (including exotics)

» Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared

» Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)

» Cost effective regulatory compliance solutions

Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces. These include:

» Detection of flammable, oxygen and toxic gases

» Single gas personal monitors – worn by the individual

» Multi-gas portable gas monitors – used for confined space entry and regulatory compliance

» Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

» Full technical support

» Expert team on hand to answer questions and queries

» Fully equipped workshops to ensure quick turnaround on repairs

» Comprehensive service engineer network

» Training on product use and maintenance

» Mobile calibration service

» Customised programmes of preventative/corrective maintenance

» Extended warranties on products

Find out more

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Honeywell

Sensepoint XRL

Fixed Gas Detector

Sensepoint XRL is a fixed point gas leak detector that is designed to meet the needs of industrial applications. With over 50 years experience in gas leak detection, Honeywell offers a flexible range of highly-reliable sensing devices to meet those needs.

- Quick installation
- Rapid configuration
- Simple to operate
- Straightforward to maintain

Honeywell innovation enables customers to pair the gas detector with their mobile phone, and then use an app to perform many tasks related to installation, commissioning and maintenance.

Flexible Output Options

Sensepoint XRL is available with either mA loop analog output or Modbus RTU. The result is a flexible solution that can easily be incorporated into legacy systems as well as new installations.

Easy Control and Maintenance

Sensepoint XRL's smartphone interface makes for much faster calibration, configuration and bump tests. Inspecting the status and settings of individual Sensepoint XRL detectors is simple. Use the mobile app to:

- Read gas concentrations in real-time
- Reconfigure settings
- Check unit histories

Automated Reporting

Increase the efficiency of your operations and reduce administration time. The app and Sensepoint XRL provides easy access to diagnostic information and generates calibration reports at the touch of a screen.

Compatible System Controller

Touchpoint Plus is the perfect complement to Sensepoint XRL, providing an intuitive, easy to operate gas detection solution to meet the needs of your business.

Visual Integration

Clean aesthetics and a choice of colors mean that the detector appearance can be selected to compare or contrast with the environment in which it is being used.

Typical Applications

- Manufacturing facilities and factories
- Water treatment plants
- Battery charging facilities
- Vehicle test facilities
- Petrochemical plants
- Fuelling depots

Accessories

- Calibration cap
- Collecting cone
- Pole Mount Bracket Kit
- Duct Mount Kit
- Weather Protection
- Flow Housing

FEATURES & BENEFITS

- Choose from a range of mA or Modbus output versions for flexible system design to meet the customers requirements.

- Selectable source or sink current for analog output enables one detector to be suitable for both system configurations.

- The ingress protection of NEMA 4X/IP66 allows units to be installed in outdoor environemtns.
- Simplified maintenance with familiar smartphone technology saves money and time.

- Multi-color visual indicator to show status makes it easier to know the detector status immediately and identify detectors that require attention or are warning of danger.

- Manage the detector without making a physical connection. Remove the need for physical access to hard-to-reach devices.
- One person calibration without the need to open the detector. Saves time and removes need for hot work permit.

Sensepoint XRL Technical Specifications

PHYSICAL PROPERTIES	
DIMENSIONS	118 x 159 x 93 mm (4.4 x 6.2 x 3.6 in)
WEIGHT	1400 g (3.1 lb)
CASING MATERIAL	Aluminum alloy LM20 (charcoal or yellow)
INGRESS PROTECTION RATING	IP66, NEMA 4X
LIFETIME	10 years (excludes sensor)

AVAILABLE SENSORS	
FLAMMABLE, TOXIC GASES AND OXYGEN RANGES	• Combustible: 0 to 100 % LEL (adjustable between 20 and 100% LEL, Factory calibrated to Methane) • O_2: 0 to 25% vol • CO: 0 to 300 ppm (adjustable between 50 and 1000 ppm) • H_2: 0 to 1000 ppm • H_2S Low Range: 0 to 50 ppm (adjustable between 10 and 50 ppm) • H_2S High Range: 0 to 100 ppm (adjustable between 50 and 200 ppm)

POWER SUPPLY	
DC INPUT VOLTAGE	24 V DC[†]
AC INPUT VOLTAGE	24 V AC[‡], 50/60 Hz
INRUSH CURRENT	850 mA

OUTPUT	
ANALOG OUTPUT	0 to 22 mA
DIGITAL OUTPUT	Modbus RTU

MAXIMUM POWER CONSUMPTION	
mA VERSIONS	< 1.5 W (toxic), < 2.6 W (flammable)
MODBUS VERSIONS	< 1.0 W (toxic), < 2.0 W (flammable)

CONNECTION	
TYPE	Pluggable rising clamp style, 0.5 to 2.5 mm^2, 20 to 13 AWG

[†] mA versions: 11 to 32 VDC, Modbus versions: 9 to 32 VDC

[‡] All versions: 20 to 27 VAC

USER INTERFACE	
VISUAL INDICATOR	Multi-colour LED light ring • Flashing green: Normal[§] • Flashing red: Alarm • Flashing green and yellow: Warning • Flashing yellow: Fault • Solid yellow: Inhibited • Flashing blue: Bluetooth pairing in progress • Solid blue: Bluetooth connection established
WIRELESS INTERFACE	Bluetooth 4.0 (Bluetooth Low Energy). Dedicated mobile app, enabling wireless configuration and maintenance. Connect up to 10 m (30 ft) away (mobile device dependent). Use a compatible smartphone or other mobile device running Android 4.3 or above.

OPERATING ENVIRONMENT	
OPERATING TEMPERATURE	–40 to 65 ºC (–40 to 140 ºF)
STORAGE TEMPERATURE	0 to 30 ºC (32 to 86 ºF)
HUMIDITY	0 to 99% (non-condensing)
ATMOSPHERIC PRESSURE	90 to 110 kPa

CERTIFICATIONS	
ELECTRICAL SAFETY	EN/IEC/UL 61010-1 CSA C22.2 No. 61010-1-12
EMC	EN 50270:2015
RADIO	RED, FCC, IC
HAZARDOUS AREA	• ATEX ⟨Ex⟩ II 2 GD Ex db IIC T6 Gb Ex tb IIIC T85 ºC Db Tamb –40 to +65 ºC • IECEx Ex db IIC T6 Gb Ex tb IIIC T85 ºC Db Tamb –40 to +65 ºC • cULus Class I, Division 1 & 2, Groups B, C and D Class II, Division 1 & 2, Groups E, F and G Class I, Zone 1, AEx db IIC T6 Zone 21, AEx tb IIIC T85ºC, IP6X Ex db IIC T6 GbX Ex tb IIIC T85ºC DbX Tamb –40 to +65 ºC, Temp Code T6
GAS PERFORMANCE	CSA C22.2 No.152-M1984, UL 2075, AS 1668.2

[§] LED behavior in normal condition can be changed by the user: green confidence flash, solid green or off.

For more information

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Middle East Tel: +971 4 450 5800 (Fixed gas detection)

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

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Honeywell

THE POWER OF CONNECTED

Gas Detector / Gas Detection Monitoring System
Customer Reference

Health Care and Laboratory

International Flavors & Fragrances
Austrianova Singapore Pte. Ltd.
BASF South East Asia Pte. Ltd
Singapore Cord Blood Bank
Exova Singapore
Firmenich
Halliburton
Hoya Medical
Mount Elizabeth Hospital
National University of Singapore (Blk E5)
Shinagawa Eye Centre
Singapore Eye & Vision
Tan Tock Seng Hospital (Autopsy Storeroom)
Tan Tock Seng Hospital (Respiratory Lab)
W Eye Clinic
Waters Pacific Pte. Ltd.
Ichor Systems Singapore Pte Ltd
KK Women's and Children's Hospital
MSD Neuros & Immunos
Advanced Energy Singapore Pte Ltd
CellVec Pte Ltd
Ingredion Incorporated

IT and Server Room

Singtel Kim Chuan Telecommunications Centre
Microsoft Data Centre (Woodland)
Equinix (Jurong)
Equinix (Paya Lebar)
Raffles Hotel (Battery Room)
Sengkang General Hospital (Battery Cabinet)

Food Industries / Freezer / Warehouse

Olam Cocoa Pte Ltd
Singapore Food industry 234
Sunny Food
Asia Pacific Breweries (S) Pte Ltd
Kikkoman Singapore R&D Laboratory Pte. Ltd.
Ncs Cold Stores (s) Pte Ltd
Singapore Food industry 212
Holiday Inn Express Singapore Orchard Road (Kitchen
Ban Heng

Carpark

Fraser Centrepoint Limited (Valleypoint)

Manufacturing

Agnos Chemicals Pte Ltd
Armstrong Rubber Manufacturing Pte Ltd
Singapore Epson Industrial Pte Ltd
Micron Semiconductor Asia Operations Pte Ltd
Micron Semiconductor Asia Pte Ltd Fab 10
National Oilwell Varco
Procter & Gamble
Pratt & Whitney
SWTS
Panasonic
Abbott Laboratories (Tuas)
Biotronik Singapore
DSM
James Walker Asia Pacific Pte Ltd
KMG Singapore Pte Ltd
Kuraray Asia Pacific Pte Ltd
O.E. Manufacturing Pte Ltd
Singapore Refining Company
Welding Alloys Group
Yokogawa SE Asia (Bedok)
NSL Ltd
Flowserve Pte Ltd
Linxens (Changi)
PGI Industries Pte Ltd
ASE Singapore Pte Ltd
Anaergia Singapore Pte Ltd
Seagate (Paya Lebar)
Metalor Technologies Singapore Pte Ltd
Molex (S) Pte Ltd
STATS ChipPAC Pte Ltd

Government / Institution

AVA (Sembawang Research Station)
PUB (Changi Water Reclamation Plant)
PUB (Choa Chu Kang Waterworks)
DSO (Stockport Road)
Republic Polytechnic (E4)
Singapore University of Technology and Design
NTU (Rolls—Royce)
Singapore Powergrid
STA (Jurong West)
Changi Airport T1 — 1
City Gas
Nanyang Polytechnic

Vessel / Overseas Customer

Epson Precision (Johor) Sdn. Bhd.
ASIA PACIFIC SUPERYACHTS SINGAPORE