# **Sensepoint XCD RTD**

# **Honeywell**







A gas transmitter for use with directly or remotely mounted toxic and Oxygen gas sensors

## Sensepoint XCD RTD





#### **Benefits**

- Increased personnel safety
- Compliance with Health and Safety legislation
- Fulfilment of duty of care
- · Reduced insurance premiums

#### **Flexibility**

- Tri-colour display indicates status at a glance
- Transmitter can be mounted in easy to access area or highly visible location
- Sensor can be mounted directly or up to 30 metres (100 feet) from transmitter
- Detects a wide range of toxic gases
- Generic 4-20mA input device option

#### **Reliable Detection**

- Compatible with Honeywell Analytics' proven Sensepoint toxic and Oxygen gas sensors
- Surecell<sup>TM</sup> technology ensures performance at extremes of temperature and humidity
- Long-life sensors
- IP66/67 rated for use in harsh environments

#### Easy to Use

- Easy to read tri-colour backlit display with digits, bar graph and icons
- Fully configurable via non-intrusive magnetic switches
- Selectable sink or source 4-20mA output
- Auto-inhibit during maintenance prevents false alarms

#### **Cost Effective**

- Sensepoint XCD common transmitter platform
- Reduces training costs
- Reduces spares and stock costs
- Non-intrusive, one-man operation reduces cost of maintenance
- Plug-in sensor cartridge replacement

#### **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 RTD enables users to comply with legislation, increase safety and reduce insurance premiums and maintenance costs when protecting personnel from toxic gas releases. It provides proven, reliable toxic and Oxygen gas detection, an easy to read status display and a common platform.



Sensepoint XCD RTD (Remote Toxic Detector) has been specifically designed for use with the Honeywell Analytics' range of Sensepoint toxic and Oxygen sensors. This configuration is ideal for a wide range of toxic and Oxygen gas detection applications. The sensor can be mounted up to 30 metres (100 feet) away from the transmitter in areas that are difficult to access. The transmitter can be mounted at a suitable location away from this area where it is easy to access, view its display and interact with via the user interface.

Sensepoint toxic and Oxygen sensors offer a wide variety of gases and measuring ranges. The sensor can be mounted directly to the transmitter as well as remotely. Sensepoint XCD RTD can be used as a common platform for all toxic and Oxygen gas detection, reducing spares requirements. The Sensepoint sensor design includes an IS portion with a removable sensor cartridge, eliminating the need for a hot work permit when changing the sensor cartridge. The sensor has an IP67 rating for use in the harshest conditions.

The transmitter's 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.

Outputs include 2 programmable alarm relays, 1 programmable fault relay as well as 4-20mA output (sink or source selectable).

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

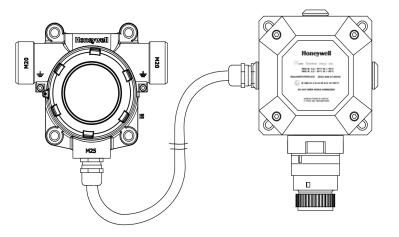


# Sensepoint XCD RTD Overview

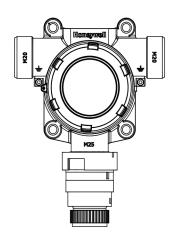




The Sensepoint XCD RTD (Remote Toxic Detector) can be used with the Sensepoint range of toxic and Oxygen gas detectors. The sensors can be directly mounted to the M25 entry at the bottom of the transmitter, or remotely mounted to suitable junction boxes or duct mounting assemblies.



Typical installation of Sensepoint XCD RTD with remote Sensepoint toxic or Oxygen sensor



Typical installation of Sensepoint XCD RTD with local Sensepoint toxic or Oxygen sensor

			Av	ailable Sensepo	int Toxic Sensor	s			
Gas and Range	Hydrogen Sulphide (H <sub>2</sub> S) 20/50/100ppm	Carbon Monoxide (CO) 100/200/500ppm	Ammonia (NH <sub>3</sub> ) 50/1000ppm	Chlorine (Cl₂) 5/15ppm	Oxygen (0 <sub>2</sub> ) 25% <b>V</b> / <b>V</b>	Hydrogen (H <sub>2</sub> ) 1000/10000ppm	Sulphur Dioxide (SO <sub>2</sub> ) 15/50ppm	Nitric Oxide (NO) 100ppm	Nitrogen Dioxide (NO <sub>2</sub> ) 10ppm
Operating Temp	-25 to +50°C	-20 to +50°C	-20 to +40°C	-20 to +50°C			-15 to +40°C		
Warm-up Time		< 3 minutes		< 5 n	< 5 minutes < 3 minutes			12 hours	1 hour
Response Time									
T20	< 6 secs	< 5 secs	_	< 10 secs	< 3 secs	_	_	< 3 secs	< 15 secs
T50	< 15 secs	< 12 secs	< 10 secs	< 20 secs	< 5 secs	< 10 secs	< 10 secs	< 5 secs	< 30 secs
T90	< 40 secs	< 30 secs	< 65 secs	< 105 secs	< 10 secs	< 45 secs	< 90 secs	< 30 secs	< 60 secs
Stability (zero)									
with time*	< ±2% fsd / yr								
with temp**	$<\pm5\%$ fsd $<\pm6\%$ fsd $<\pm2\%$ fsd $<\pm2\%$ fsd $<\pm5\%$ fsd								
with humidity	< ±10% fsd	< ±2% fsd	< ±10% fsd	< ±2% fsd		< ±2% fsd	< ±10% fsd		
Stability (span)									
with time*	< ±2% fsd / yr	< ±4% fsd / yr	< ±20% fsd / yr	< 10% fsd / yr	< ±20% fsd / yr	< ±2% fsd / yr			
with temp***	< ±25% fsd	< ±20% fsd	< ±20% fsd	< 40% fsd	< ±10% fsd	< ±60% fsd	< ±15% fsd	< ±2	5% fsd
with humidity	< ±10% fsd	< ±2% fsd	< ±10% fsd	< ±2% fsd	< ±1% fsd	< ±2% fsd		< ±10% fsd	

Notes

### Ready, Steady, Go!

Sensepoint XCD RTD uses three instantly recognisable 'traffic light' colours to indicate its status. The large tri-colour backlit LCD flashes red to indicate an alarm, flashes yellow to indicate a fault and is steady green to indicate normal operation. 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.



<sup>\*= %</sup> of range (fsd) per year, \*\*Over operating temperature range, \*\*\*= % of applied concentration





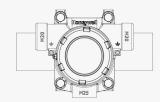
#### Mechanical

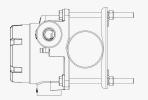
The Sensepoint XCD RTD transmitter has an integral mounting plate consisting of four mounting holes on the transmitter body. The transmitter may be fixed directly to a surface mounting, or to The pipe mounting bracket accessory (optional accessory) may be used for this purpose.

a horizontal or vertical pipe/structure, 40.0-80.0mm (1.6 to 3.1 inches) in diameter/cross section.

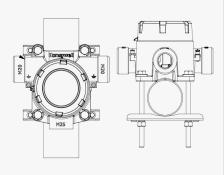
# Wall mounted

**Installation Options** 

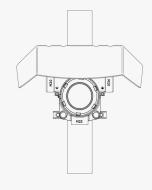




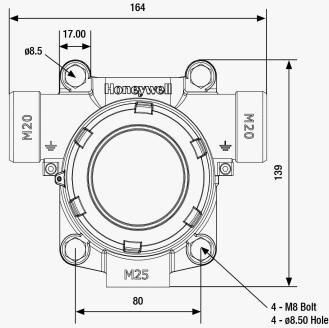
Horizontal pipe mounted (Using optional pipe mounting kit)

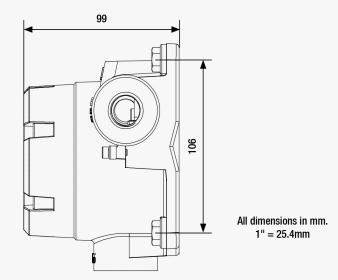


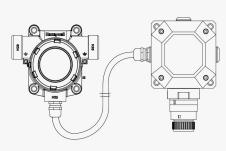
Vertical pipe mounted (Using optional pipe mounting kit)



Optional sunshade/deluge protection







Typical installation of Sensepoint XCD RTD with remote Sensepoint toxic or Oxygen sensor



Typical installation of Sensepoint XCD RTD with local Sensepoint toxic or Oxygen sensor



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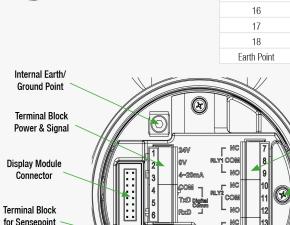
#### **Electrical**

Sensepoint XCD RTD is designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitable mechanically protected cable and glands (M20 and M25). Use 0.5mm² to 2.5mm² cross sectional area cable as needed to ensure minimum operating voltage at the detector, depending on installed cable length.



		Terminal Module Connections	
Terminal Number	Marking	Connection	Description
1	24V	+VE Supply (18 - 32VDC)	
2	OV	-VE Supply (OVDC)	Controller Connections
3	4~20mA	Current Output Signal	
4	COM	Drain	MODBUS RTU.
5	TxD	MODBUS B (+)	RS485 (Optional/
6	RxD	MODBUS A (-)	Pending)
7	RLY1/NC	Normally Closed	
8	RLY1/COM	Common	Programmable Relay 1 (Default A1)
9	RLY1/NO	Normally Open	(Delault AT)
10	RLY2/NC	Normally Closed	
11	RLY2/COM	Common	Programmable Relay 2 (Default A2)
12	RLY2/NO	Normally Open	(Delault AZ)
13	RLY3/NC	Normally Closed	
14	RLY3/COM	Common	Programmable Relay 3 (Default Fault)
15	RLY3/NO	Normally Open	(Delault Lault)
16	+VE	+24VDC (Sensor Red Wire)	
17	-VE	4-20mA (Sensor Blue Wire)	DTD 0
18	Unused	-	RTD Sensor Connections
Earth Point	Earth Symbol	Screen	

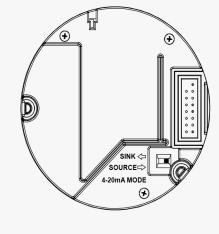
Terminal Module Connections



Terminal Block for Relays

Display Module
Alignment Pin Locator

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



**Puck Rear View** 

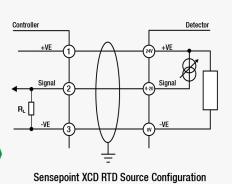
#### **Wiring Schematics**

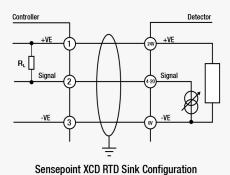
**Toxic Sensor** 

The Sensepoint XCD RTD 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.

Terminal Module

#### **Detector to Controller Wiring Schematics**

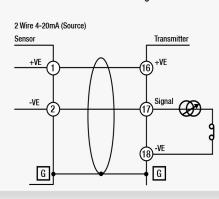




#### Note:

Terminate cable screen at the detector or the controller, not both.

#### Transmitter to Sensor Wiring Schematic





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# Installation and Technical Summary





#### **Typical Cable Lengths**

Typical Cal	Maximim Cable Length			
Cable Size	Cable Re	sistance		
(Cross Sectional Area)	Ω/km	Ω/mi	Metres	Feet
0.5mm <sup>2</sup> (20AWG*)	36.8	59.2	353	1158
1.0mm <sup>2</sup> (17AWG*)	19.5	31.4	666	2185
1.5mm² (16AWG*)	12.7	20.4	1023	3356
2.0mm² (14AWG*)	10.1	16.3	1287	4222
2.5mm² (13AWG*)	8	12.9	1621	5318

#### 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 18VDC and maximum power supply under full alarm.  $\rm R_L$  (max) is 250ohms.

Sensepoint XCD RTD Tran	ismitter
Use	3 wire 4-20mA gas transmitter for use with toxic and Oxygen gas sensors to protect plant and personnel from toxic and Oxygen gas hazards. Transmitter incorporates in-built alarm and fault relays, local tri-colour LCD display and is fully configurable via non-intrusive magnetic switch interface.
Electrical	
	Input Voltage Range 18 to 32VDC (24VDC nominal)  Max Power Consumption 5 Watts
	Current Output Sink or source ≥0.0<1.0mA Fault 2.0mA or 4.0mA to 20.0mA 1.0mA to 20.0mA 2.0mA Maximum over range
	Terminals 18 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
Construction	
Material	Transmitter Housing Epoxy painted aluminium alloy LM25 or 316 stainless steel  Sensepoint Toxic Sensor PPS  Weather Protection Plastic
Weight (approx)	Aluminium Alloy LM25 2.0kg (4.4lbs) 316 Stainless Steel 5.0kg (11lbs) Sensor 0.2kg (max- type dependant)
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 side entries and 1 x M25 bottom entry. Suitable blanking plug supplied for use if only 1 side entry used. Seal to maintain

#### Sensepoint Detectable Gases, Ranges and Default Settings

IP rating

Gas	Displayed Name	Range	Lower Alarm	Lower Alarm Type	Higher Alarm	Higher Alarm Type	Lowest Alarm Level
		20.0ppm	4.0ppm	Rising	8.0ppm	Rising	2.0ppm
Hydrogen Sulphide	H <sub>2</sub> S	50.0 ppm	10.0ppm	Rising	20.0ppm	Rising	5.0ppm
		100 ppm	20ppm	Rising	40ppm	Rising	10ppm
	СО	100 ppm	30ppm	Rising	60ppm	Rising	10ppm
Carbon Monoxide		200 ppm	40ppm	Rising	80ppm	Rising	20ppm
		500 ppm	100ppm	Rising	200ppm	Rising	50ppm
Chlorine	$\mathrm{Cl}_2$	5.0 ppm	0.5 ppm	Rising	2.0ppm	Rising	5.0ppm
		15.0 ppm	1.5 ppm	Rising	6.0ppm	Rising	10ppm
	NH <sub>3</sub>	50.0ppm	20.0ppm	Rising	30.0ppm	Rising	5.0ppm
Ammonia		100 ppm	20ppm	Rising	40ppm	Rising	10ppm
		1000 ppm	200ppm	Rising	400ppm	Rising	100ppm
Hydrogen	H <sub>2</sub>	1000ppm	200ppm	Rising	400ppm	Rising	100ppm
		9999 ppm	2000ppm	Rising	4000ppm	Rising	1000ppm
Nitrogen Monoxide	NO	100 ppm	20ppm	Rising	40ppm	Rising	10ppm
Sulphur Dioxide	SO <sub>2</sub>	15.0ppm	2.0ppm	Rising	6.0ppm	Rising	1.5ppm
		50.0ppm	5.0ppm	Rising	20.0ppm	Rising	5.0ppm
Nitrogen Dioxide	NO <sub>2</sub>	10.0ppm	2.0ppm	Rising	4.0ppm	Rising	1.0ppm
Oxygen	0,	25.0% V/V	19.5%Vol	Falling	23.5%Vol	Rising	10.0%Vol

Note

; se refer to Sensepoint Sensor Datasheet for further details

## Technical Summary cont. and Ordering Information





Cer	tific	ati	on	

China

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

IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66

GB Ex d IIC T4 GB3836.1&2 -2000, PA, CCCF

Korea KTL Ex d IIC T6 (-40°C to +65°C)

**EMC** CE: EN50270:2006 EN6100-6-4:2007

**Environmental** 

**IP Rating** Transmitter: IP66, Sensor: IP67 in accordance with EN60529:1992

-40°C to +65°C (-40°F to +149°F) **Transmitter Certified** 

Operating Range

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. See Sensepoint Sensor Datatsheet for further certified and operational temperature details.

**Operating Humidity** Continuous 20-90%RH (non-condensing), Intermittent 0-99%RH (non-condensing)

90-110kPa **Operating Pressure** 

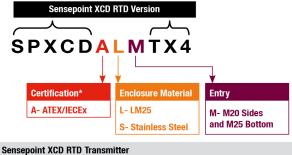
-25°C to +65°C (-13°F to 131°F) **Storage Conditions** 

#### **Transmitter Ordering Information**

Standard Supply Sensepoint XCD RTD is supplied complete with integral wall mounting plate, 2 x M20 side entries and 1 x M25 bottom entry. 1 x M20 plug, Allen key for locking screw, operating magnet, quick start guide and instruction manual CD. Default settings, ranges and calibrations are 100% tested at the factory. Each unit is supplied

with a 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)



Order required sensor separately



חוט וומווטווועפו	Senseponit toxic	Sensepoint toxic and oxygen sensors		
ATEX/IECEX & AP approved SP XCD RTD Transmitter with 316SS	2106B1418	Sensepoint NO 0-100 ppm Toxic Sensor M20		
ATEX/IECEX & AP approved SP XCD RTD Transmitter with LM25	2106B1518	Sensepoint NO 0-100 ppm Toxic Sensor M25		
Sensors	2106B1420	Sensepoint SO <sub>2</sub> 0-15 ppm Toxic Sensor M20		
Sensepoint H.S 0-20ppm Toxic Sensor M20	2106B1421	Sensepoint SO <sub>2</sub> 0-50 ppm Toxic Sensor M20		
. 2	2106B1520	Sensepoint SO <sub>2</sub> 0-15 ppm Toxic Sensor M25		
. 2	2106B1521	Sensepoint SO <sub>2</sub> 0-50 ppm Toxic Sensor M25		
. 2	2106B1422	Sensepoint NO <sub>2</sub> 0-10 ppm Toxic Sensor M20		
. 2	2106B1522	Sensepoint NO <sub>2</sub> 0-10 ppm Toxic Sensor M25		
. 2	2106B1430	Sensepoint O <sub>2</sub> 25% V/V Toxic Sensor M20		
. 2	2106B1530	Sensepoint O <sub>2</sub> 25% V/V Toxic Sensor M25		
Sensepoint CO 0-200 ppm Toxic Sensor M20	Sensepoint Cell	Exchange Kits		
Sensepoint CO 0-500 ppm Toxic Sensor M20	2106B1545	O <sub>a</sub> Electrochemical Cell Exchange Kit		
Sensepoint CO 0-100 ppm Toxic Sensor M25		SO <sub>2</sub> Electrochemical Cell Exchange Kit		
Sensepoint CO 0-200 ppm Toxic Sensor M25		Cl. Electrochemical Cell Exchange Kit		
Sensepoint CO 0-500 ppm Toxic Sensor M25		CO Electrochemical Cell Exchange Kit		
Sensepoint Cl <sub>2</sub> 0-5 ppm Toxic Sensor M20	2106B1549	H <sub>a</sub> S Electrochemical Cell Exchange Kit		
Sensepoint Cl <sub>2</sub> 0-15 ppm Toxic Sensor M20	2106B1594	NO Electrochemical Cell Exchange Kit		
Sensepoint Cl <sub>2</sub> 0-5 ppm Toxic Sensor M25	2106B1595	NH <sub>a</sub> 0-1000 ppm Electrochemical Cell Exchange Kit		
Sensepoint Cl <sub>2</sub> 0-15 ppm Toxic Sensor M25	2106B1596	NH <sub>2</sub> 0-50 ppm Electrochemical Cell Exchange Kit		
Sensepoint NH <sub>3</sub> 0-50 ppm Toxic Sensor M20	2106B1597	H <sub>2</sub> 0-1000 ppm Electrochemical Cell Exchange Kit		
Sensepoint NH <sub>3</sub> 0-1000 ppm Toxic Sensor M20	2106B1598	H <sub>2</sub> 10000 ppm Electrochemical Exchange Kit		
Sensepoint NH <sub>3</sub> 0-100 ppm Toxic Sensor M20	2106B1599	NO <sub>2</sub> 0-10 ppm Electrochemical Exchange Kit		
Sensepoint NH <sub>3</sub> 0-50 ppm Toxic Sensor M25	Acceptation	2		
Sensepoint NH <sub>3</sub> 0-1000 ppm Toxic Sensor M25		T. H. B. ( DE4455 W. W. W. L. 4 05 000		
Sensepoint NH <sub>3</sub> 0-100 ppm Toxic Sensor M25	00780-A-0100	Term Hsg - Bartec DE1155 with continuity plate 1 x 25mm - 3 x 20mm Entries - ATEX approved		
Sensepoint H <sub>2</sub> 0-1000 ppm Toxic Sensor M20	SDACDUMA	Duct mounting kit		
Sensepoint H <sub>2</sub> 0-10000 ppm Toxic Sensor M20		Hard copy manual in English		
Sensepoint H <sub>2</sub> 0-1000 ppm Toxic Sensor M25		Mounting bracket (inc. bolts, nuts, brackets)		
Sensepoint H <sub>2</sub> 0-10000 ppm Toxic Sensor M25		Sunshade/deluge protection		
	ATEX/IECEX & AP approved SP XCD RTD Transmitter with 316SS  ATEX/IECEX & AP approved SP XCD RTD Transmitter with LM25  Sensors  Sensepoint H <sub>2</sub> S 0-20ppm Toxic Sensor M20  Sensepoint H <sub>2</sub> S 0-50 ppm Toxic Sensor M20  Sensepoint H <sub>2</sub> S 0-100 ppm Toxic Sensor M20  Sensepoint H <sub>2</sub> S 0-20 ppm Toxic Sensor M25  Sensepoint H <sub>2</sub> S 0-50 ppm Toxic Sensor M25  Sensepoint H <sub>2</sub> S 0-100 ppm Toxic Sensor M25  Sensepoint C0 0-100 ppm Toxic Sensor M25  Sensepoint C0 0-200 ppm Toxic Sensor M20  Sensepoint C0 0-200 ppm Toxic Sensor M20  Sensepoint C0 0-500 ppm Toxic Sensor M20  Sensepoint C0 0-500 ppm Toxic Sensor M25  Sensepoint C1 <sub>2</sub> 0-5 ppm Toxic Sensor M20  Sensepoint C1 <sub>2</sub> 0-15 ppm Toxic Sensor M20  Sensepoint N1 <sub>3</sub> 0-50 ppm Toxic Sensor M25  Sensepoint N1 <sub>3</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint N1 <sub>3</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint N1 <sub>3</sub> 0-1000 ppm Toxic Sensor M25  Sensepoint N1 <sub>4</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint N1 <sub>4</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint N1 <sub>4</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint N1 <sub>4</sub> 0-1000 ppm Toxic Sensor M20	ATEX/IECEX & AP approved SP XCD RTD Transmitter with 316SS  ATEX/IECEX & AP approved SP XCD RTD Transmitter with LM25  Sensors  2106B1420  2106B1421  2106B1520  2106B1520  2106B1520  2106B1521  2106B1521  2106B1521  2106B1521  2106B1521  2106B1521  2106B1521  2106B1521  2106B1522  2106B1521  2106B1522  2106B1520  2106B1522  2106B1522  2106B1522  2106B1522  2106B1522  2106B1522  2106B1530  Sensepoint H <sub>2</sub> S 0-100 ppm Toxic Sensor M25  2106B1530  Sensepoint CO 0-100 ppm Toxic Sensor M20  Sensepoint CO 0-500 ppm Toxic Sensor M20  Sensepoint CO 0-100 ppm Toxic Sensor M25  Sensepoint CO 0-200 ppm Toxic Sensor M25  2106B1545  Sensepoint CO 0-500 ppm Toxic Sensor M25  2106B1548  Sensepoint CO 0-500 ppm Toxic Sensor M20  2106B1548  Sensepoint Cl <sub>2</sub> 0-5 ppm Toxic Sensor M20  2106B1549  Sensepoint Cl <sub>2</sub> 0-15 ppm Toxic Sensor M20  2106B1596  Sensepoint NH <sub>3</sub> 0-50 ppm Toxic Sensor M20  2106B1596  Sensepoint NH <sub>3</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint NH <sub>3</sub> 0-1000 ppm Toxic Sensor M20  Sensepoint NH <sub>3</sub> 0-1000 ppm Toxic Sensor M25  Sensepoint NH <sub>4</sub> 0-1000 ppm Toxic Sensor M25  Sensepoint NH <sub>2</sub> 0-1000 ppm Toxic Sensor M20  SPXCDHMRTEN  SPXCDHMTBR		



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