Sensepoint XCD RTD

Honeywell

Remotely monitor toxic gases in Class 1, Div 2 areas while reducing the maintenance, training and overall cost of gas monitoring

Sensepoint XCD RTD

Reduce Cost of Ownership Over Life of the Product

- Cut stocking and procurement costs with a common transmitter platform
- Reduce maintenance time and expense with non-intrusive, one-man operation
- Simplify maintenance with plug-in, removable sensor
- Reduce inspection and training time with tri-color 'traffic light' display conveying safety status at a glance
- Simplify set-up and configuration with non-intrusive magnetic switches

Gain Added Flexibility, Reliability and Performance

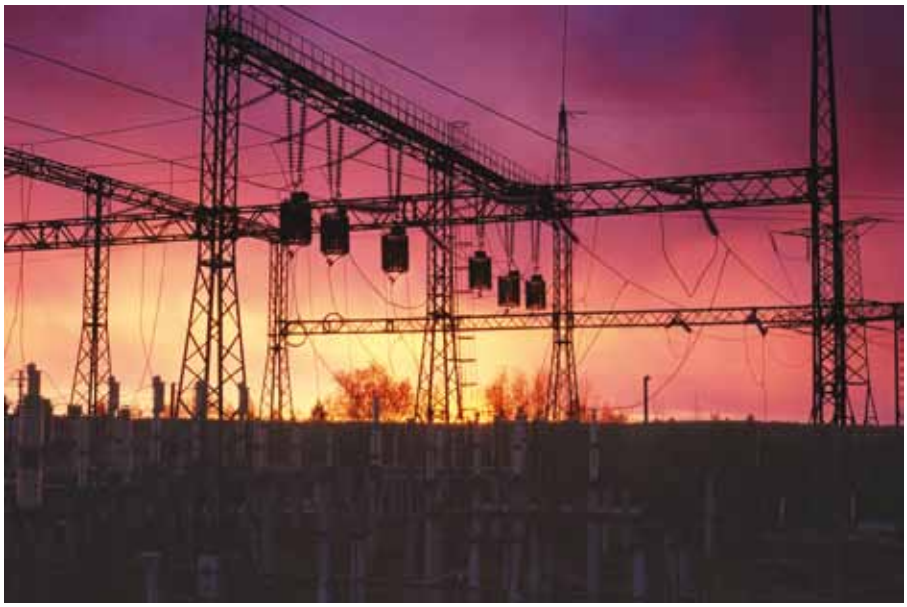
- Extend gas sensing element up to 100 feet (30 meters) from transmitter; mount in the most difficult to access areas
- Reduce likelihood of human error via on-board diagnostics and easy-to-read display
- Protect against dust/water ingress with IP66/67 rated stainless steel or aluminum enclosure
- Prevent false alarms with auto-inhibit during maintenance
- Select sink or source 4-20mA output; integral or remote configuration
- Full range of accessories and purchase options let you choose the remote monitoring system that's right for your application

Sensepoint XCD RTD from Honeywell Analytics makes it easy on your maintenance team, time and budget when faced with the challenge of monitoring toxic gases in Class I, Div 2 areas.

You can mount the unit up to 100 feet from the transmitter to obtain maximum gas detection coverage in areas not easily accessible or where the sensor would not be visible, as in high-or low-level concealed areas, or detection outside the room being monitored. XCD RTD offers unrivaled flexibility and performance via its easily recognizable display (traffic light pattern) to convey safety status, communication and mounting options, and onboard diagnostics.

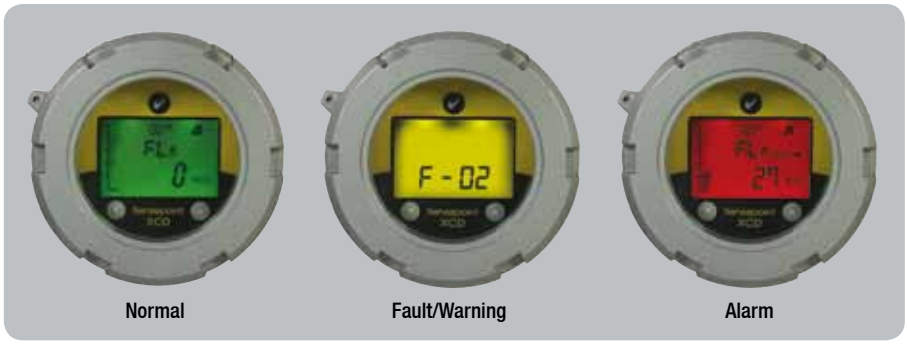
Applications

- Waste water facilities
- Utilities
- Coal processing plants
- Industrial manufacturing facilities
- Power plants
- Food and beverage production
- Oil and gas process areas



Safety at a Glance!

Sensepoint XCD uses three instantly recognizable 'traffic light' colors to indicate its status. The large tri-color 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.



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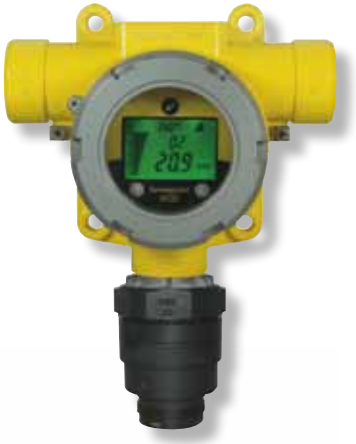
Sensepoint XCD RTD Gases and Ranges			
Gas	**User Selectable Full Scale Range**	**Range Increments**	**Class I, Division 2**
Toxic Sensors			
Hydrogen Sulfide	50ppm	N/A	✓
Carbon Monoxide	200ppm	N/A	✓
Hydrogen	1,000ppm	N/A	✓
Nitrogen Dioxide	10ppm	N/A	✓
Ammonia	50ppm	N/A	✓
Chlorine	5ppm	N/A	✓
Sulphur Dioxide	15ppm	N/A	✓
Nitric Oxide	100ppm	N/A	✓
Oxygen Sensors			
Oxygen	25%V/V	N/A	✓

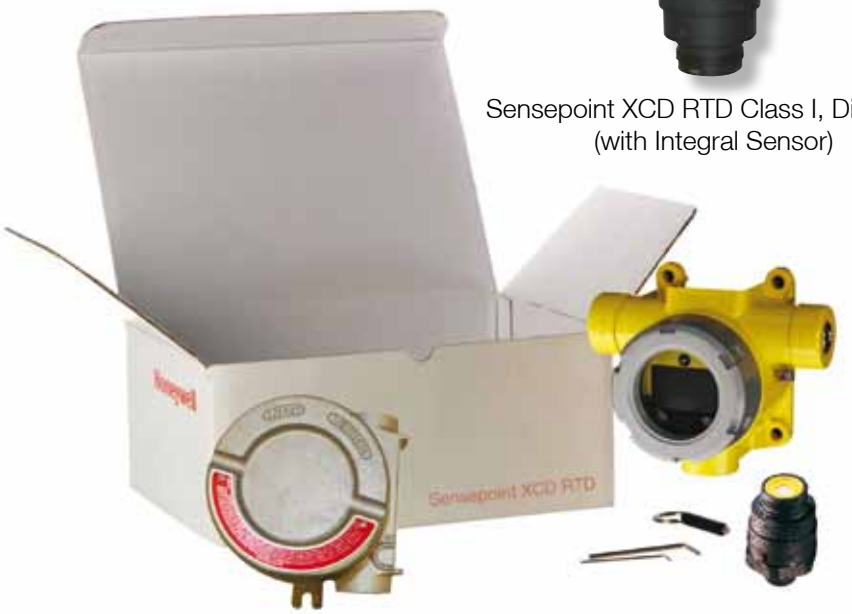
Get More Return on Investment from the Practical Advantages of XCD RTD

Sensepoint toxic and oxygen sensors detect a wide variety of industrial gases at common measuring ranges, adding flexibility to your gas monitoring program, reducing your parts procurement costs and expanding your safety net.

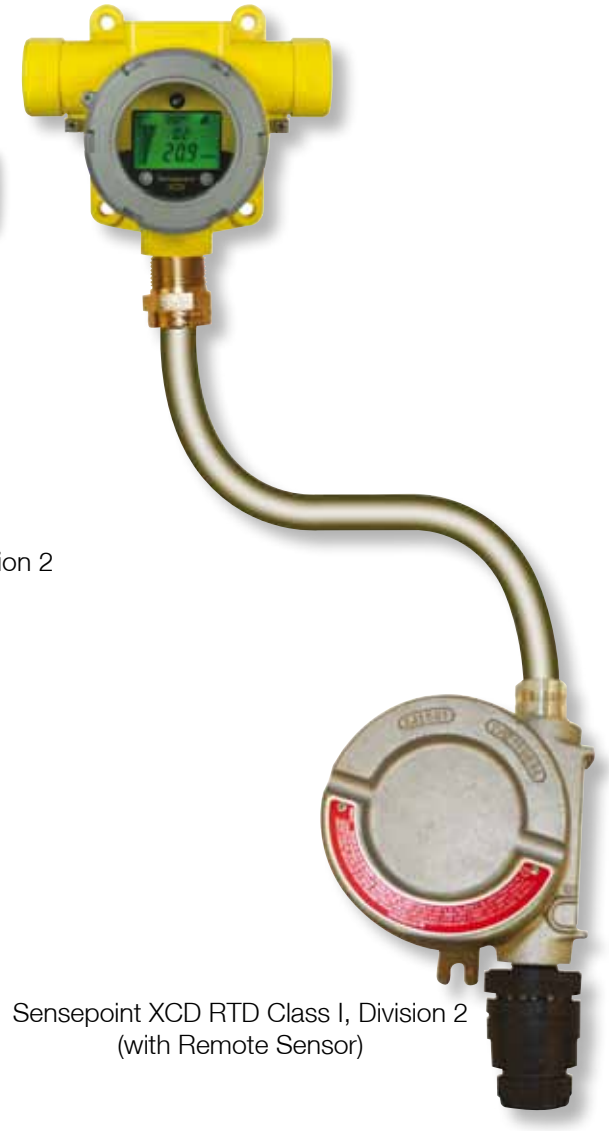
Remote gas monitoring has never been this easy and cost-effective. Mount the sensor as shown in the illustration and view gas safety status via the large tri-color display on the transmitter, up to 100 feet away from the sensor. The advantages of this remote monitoring system are added safety, and reduced time spent on maintenance. There's no need for your team to climb ladders or bring in specialized equipment to view gas concentration readings or to conduct a safety audit. What's more, the removable sensor design of Sensepoint XCD RTD cuts downtime and eliminates the need for specialized training.



Sensepoint XCD RTD Class I, Division 2
(with Integral Sensor)



Order Sensepoint XCD RTD as a complete kit or a la carte.



Sensepoint XCD RTD Class I, Division 2
(with Remote Sensor)

XCD RTD is the right choice for a variety of demanding industrial applications

	Industry	Specific Area	(Gases Detected by XCD RTD)
	Chemical Plants	• Raw material storage • Process Areas • Laboratories • Pump rows • Compressor stations • Loading/unloading areas	• Oxygen • Carbon Monoxide • Ammonia • Sulfur Dioxide • Nitric Oxide
	Power Stations	• Turbines • Coal silos and conveyor belt areas in older coal/oil fired stations	• Carbon Monoxide • Oxygen • Ammonia • Hydrogen • Hydrogen Sulfide
	Waste Water Treatment Plants	• Digesters • Plants sumps • H_2S scrubbers • Pumps	• Chlorine • Carbon Monoxide • Oxygen • Nitrogen Dioxide
	Steel Industry	• Loading and unloading docks • Pre-treatment	• Sulfur Dioxide • Carbon Monoxide • Oxygen • Nitric Oxide • Hydrogen Sulfide • Nitrogen Dioxide
	General Industry	• Battery rooms • Loading and unloading docks • Process areas • Machinery rooms	• Ammonia • Sulfur Dioxide • Hydrogen Sulfide • Carbon Monoxide • Oxygen • Nitric Oxide • Nitrogen Dioxide
	Oil & Gas	• Exploration drilling rigs • Production platforms • Onshore oil and gas terminals • Refinieries	• Carbon Monoxide • Hydrogen Sulfide • Oxygen

Honeywell Analytics Serves Every Business

We offer the industry's most complete range of gas detection products and services to meet all customer needs.

Industrial

Honeywell Analytics and renowned legacy Sieger, Fire Sentry and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Commercial

Honeywell Analytics and legacy Vulcain gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Portables

Single or multi-gas BW Technologies, Sperian (Biosystems), Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first esponder teams, remote fleets

High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy with no cross interference (MST Technologies), to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

Technical Services

24/7 global network includes post-sales service and Systems Integration teams

» Emergency call out, service contracts, on/off-site repair, training and commissioning

» Complete range of spares, consumables and accessories

Find out more
www.honeywellanalytics.com

Contact Honeywell Analytics:

Americas
Honeywell Analytics, Inc.
405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: 847.955.8200
Toll-free: 800.538.0363
Fax: 847.955.8210
detectgas@honeywell.com

Technical Services
ha.service@honeywell.com

www.honeywell.com

Europe, Middle East, Africa
Life Safety Distribution AG
Javastrasse 2
8604 Hegnau
Switzerland
Tel: +41 (0)44.943.4300
Fax: +41 (0)44.943.4398
gasdetection@honeywell.com

Asia Pacific
Honeywell Analytics, Asia Pacific
#508, Kolon Science Valley (1)
187-10 Guro-Dong, Guro-Gu
Seoul, 152-050
Korea
Tel: +82 (0)2.2025.0307
Fax: +82 (0)2.2025.0329
analytics.ap@honeywell.com

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Remote toxic and oxygen gas detector for industrial applications

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 toxic and oxygen hazards. Incorporating a transmitter with local display and optional remote mounted sensor, fully configurable via non-intrusive magnetic switch interface with a wide range integral 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 Maximum inrush current = 800mA at 24VDC
Current Output **Relays**	Sink or source 3 x 5A@250VAC. Selectable normally open or normally closed (switch) and energized/de-energised (programmable) Alarm relays default normally open/de-energized. Fault relay default normally open/energized
Communication	RS485
Construction	
Material	Housing**:** Epoxy painted aluminium alloy LM25 or 316 stainless steel Sensor**:** Polyphenylene sulfide (PPS) (see Sensepoint specifications)
Weight (approx)	Aluminium Alloy LM25: 4.4lbs 316 Stainless Steel**:** 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)
Cable Entries	2 x ¾"NPT conduit entries. Suitable blanking plug supplied for use if only 1 entry used. Seal to maintain IP rating
Environmental	
IP Rating	IP67 in accordance with EN60529:1992
Certified Temperature Range	40ºF to +149ºF (-40ºC to +65ºC)

Detectable Gases and XCD RTD Sensor Performance

Gas	Displayed Name	Range	Lower Alarm	Lower Alarm Type	Higher Alarm	Higher Alarm Type	Lowest Alarm Level
Hydrogen Sulphide	H_2S	50.0 ppm	10.0ppm	Rising	20.0ppm	Rising	5.0ppm
Carbon Monoxide	CO	200 ppm	40ppm	Rising	80ppm	Rising	20ppm
Chlorine	Cl_2	5.0 ppm	0.5 ppm	Rising	2.0ppm	Rising	5.0ppm
Ammonia	NH_3	50.0ppm	20.0ppm	Rising	30.0ppm	Rising	5.0ppm
Hydrogen	H_2	1000ppm	200ppm	Rising	400ppm	Rising	100ppm
Nitrogen Monoxide	NO	100 ppm	20ppm	Rising	40ppm	Rising	10ppm
Sulphur Dioxide	SO_2	15.0ppm	2.0ppm	Rising	6.0ppm	Rising	1.5ppm
Nitrogen Dioxide	NO_2	10.0ppm	2.0ppm	Rising	4.0ppm	Rising	1.0ppm
Oxygen	O_2	25.0% V/V	19.5%Vol	Falling	23.5%Vol	Rising	10.0%Vol

Certification	
US, Latin America, Canada	**cCSAus** Ex d IIB+H2; Class I, Zone 1, AEx d IIB+H2; Class I, Division 2, Groups B, C & D Class I, Zone 1, AEx d ia IIC Gb; Class I, Div. 2, Groups B, C and D Inmetro Ex d IIC T6 Gb, Ex tb IIIC T85ºC Db, IP66, -40ºC < ta < +65ºC
EMC	CE: EN50270:2006 EN6100-6-4:2007, Ex d IIC T6 Gb, Ex tb IIIC T85ºC Db, IP66, -40ºC < ta < +65º C
Standards	CAN/CSA-C22.2 No. 0-M91, CAN/CSA-C22.2 No. 60079-0:07, CAN/CSA-E60079-11:02, CAN/CSA-C22.2 No. 60079-1:07, ANSI/UL 60079-11:09, ANSI/UL 60079-1:09, C22.2 No. 142-M1987, C22.2 No. 213-M1987, UL 508 17th Ed., ANSI/ISA -12.12.01-2010 ABNT NBR IEC 60079-0:2008, ABNT NBR IEC 60079-1:2009, IEC 60079-31:2008 e ABNTNBR IEC 60529:2009.

SS01154_v2 10/12