Sensepoint

Honeywell





The Sensepoint range of flammable, toxic and Oxygen gas detectors offers users a cost-effective solution to their gas monitoring needs

Sensepoint





One-Stop Shop
- Flammable, toxic and Oxygen versions available
- Suitable for indoor or outdoor use
- IP65 as standard

Proven Sensor Technology
- Surecell™ electrochemical sensors
- Poison resistant catalytic bead
- Fast and reliable
- Typical 2 to 5 years operational life

ATEX Certified
- Complies with the latest European standards
- Hazardous area and performance approvals
- Can be used for uncertified applications

Easy to Use
- Factory set operation
- Simple sensor replacement
- Minimal training required

Friendly Installation
- Universal junction box
- One box, three entries
- Metric and NPT compatibility
- Includes earth continuity plate for enhanced protection against RFI

Range of Accessories
- Weather Housing (IP66)
- Flow adaptor
- Collecting cone

The Sensepoint range of flammable, toxic and Oxygen gas detectors offers users a cost-effective solution to their gas monitoring needs, in or out of doors and even in potentially explosive atmospheres. Supplied with a pre-wired junction box, this detector can be installed using conduit or armoured cable and glands depending on the specific needs of the application.

Sensepoint flammable and toxic gas detectors are designed for use in potentially explosive atmospheres, and allow for easy access to terminals via the hinged lid of the junction box. Installation should follow national guidelines using suitably approved armoured cable and glands or conduit.

Supplied with an earth continuity plate for increased resistance to the effects of RFI, the junction box offers the installer a choice of ½", ¾" and M20 connection via conduit or armoured cable and Ex e certified cable glands. Terminals are suitable for use with screened 0.5mm^2 (20AWG) to 2.5mm^2 (14AWG) cross sectional area cable, as needed to ensure minimum operating voltage at the detector, depending upon installed cable length.

Sensepoint flammable, toxic and Oxygen gas detectors are designed for direct connection with the Honeywell Analytics' range of Touchpoint controllers.

Contact Honeywell Analytics for details.



Installation Details

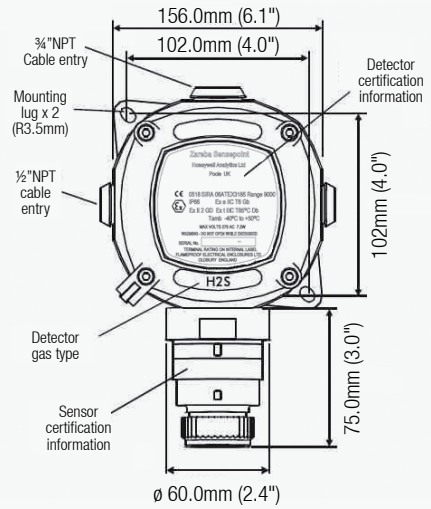


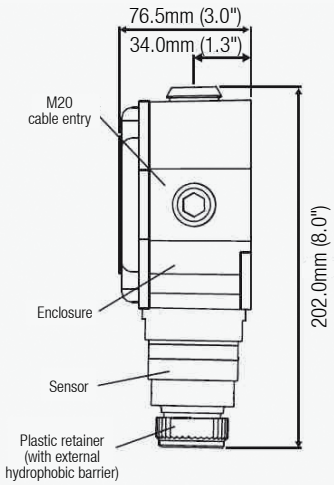
Dimensions

Sensepoint flammable and toxic gas detectors offer multiple cable entry sizes as standard and allow for quick and easy installation via the hinged lid of the junction box.

The junction box is suitable for mounting onto any suitable flat surface able to support the weight of the unit such that when installed, the sensor is in a downward position. For ceiling mounting an optional bracket is available to allow for this.

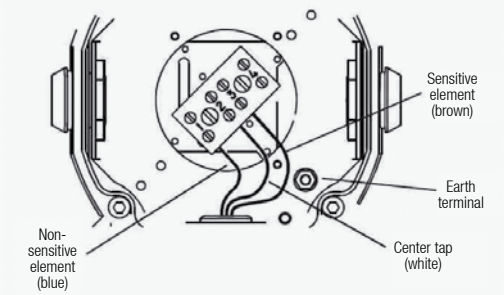
Cable can be entered into the junction boxes via a gland or conduit through one or more positions in the top or sides of the unit.



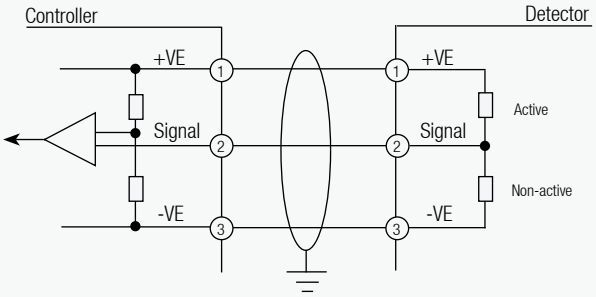


Flammable version

Terminal arrangement



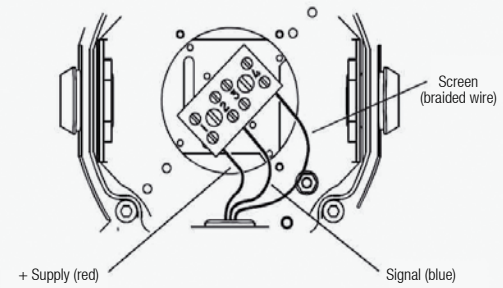
Electrical connections



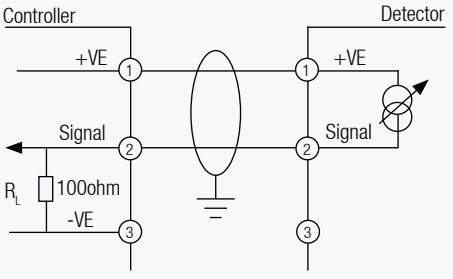
3 wire mV bridge circuit

Toxic and Oxygen version

Terminal arrangement



Electrical connections



2 wire 4-20mA (sink)

Technical Summary





General specification

Use	Cost-effective, fixed point gas detector for the protection of personnel and plant from flammable, toxic and Oxygen gas hazards

Detectable gases

Gas		Measuring range			Operating temperature*	
Ident	Name	1#	2	3	Min	Max
F	Flammable	0-100% LEL			-40°C / -40°F	50°C / 122°F
O	Oxygen	0-25% VOL			-15°C / 5°F	40°C / 104°F
C	Carbon Monoxide +	0-200ppm	0-500ppm		-20°C / -4°F	50°C / 122°F
H	Hydrogen Sulphide +	0-50ppm	0-20ppm	0-100ppm	-25°C / -13°F	50°C / 122°F
G	Hydrogen	0-1000ppm			-5°C / 23°F	40°C / 104°F
L	Chlorine	0-5ppm	0-15ppm		-20°C / -4°F	50°C / 122°F
S	Sulphur Dioxide	0-15ppm	0-50ppm		-15°C / 5°F	40°C / 104°F
N	Nitrogen Dioxide	0-10ppm			-15°C / 5°F	40°C / 104°F
A	Ammonia	0-50ppm	0-1000ppm		-20°C / -4°F	40°C / 104°F

+ SureCell™ Sensing Technology

#Standard range

*Check certified temperature

Construction

Electrical	**Flammable (0-100%LEL)** 3 wire mV bridge 2.9-3.5V, 0.7W 200mA constant current	**Toxic & Oxygen** 2 wire loop powered 4-20mA (plus screen) 16-30Vdc, 0.9W	**Junction Box** Earth continuity plate BK4 terminal block (4 way) 4 x 0.5mm² (20AWG) to 2.5mm² (14AWG) 1 x M20, 1 x ¾" NPT, 1 x ½" NPT
Material	Polyphenylene Sulphide (PPS)	Polyphenylene Sulphide (PPS)	Fire retardant GFP
Weight	190g	185g (205g Oxygen)	600g
Certification	Ⓔx II 2GD Ex d IIC T6 Gb Ex tb IIIC A21 Db IP67 T85ºC (T_{amb} -40ºC to +55ºC) or T100ºC (T_{amb} -40ºC to +70ºC) or T135ºC (T_{amb} -40ºC to +80ºC) Baseefa08ATEX0265X IECEx BAS08.0068X	Ⓔx II 2 GD Ex d ia IIC T4 Gb T_{amb} -40ºC to +65ºC Ⓔx Ex tb IIIC A21 IP67 T135ºC Db Baseefa08ATEX0263X IECEx BAS08.0070X	Ⓔx II 2GD Ex e IIC T6 Gb T_{amb} -40ºC to +50ºC Ex t IIIC T85ºC Db IP66 Sira 06ATEX3185
Applicable standards	This product complies with the relevant CE standards including: EMC to EN50270, Flammable to EN60079-29-1, Toxic to EN445544 (H_2S only)		

Environmental

IP rating	IP65 standard, IP66 with weather protection in accordance with EN60529:1992
Operating temperature	Dependent upon gas type and certification
Operating humidity range	Continuous: 20-90% RH (non condensing), Intermittent: 10-99% RH (non condensing)
Operating pressure	90-110kPa
Storage conditions	Instrument -40°C to +50°C (-40°F to +122°F)

*Oxygen detection products must only be used to detect Oxygen depletion in air



Ordering Information





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e.g. SPSTAX H 1 = SPSTXXH1

GAS TYPE	RANGE
F Flammable	**1** Refer to
O Oxygen	**2** Detectable Gases
C Carbon Monoxide	**3** Table Above
H Hydrogen Sulphide	
G Hydrogen	
L Chlorine	
S Sulphur Dioxide	
N Nitrogen Dioxide	

Standard Supply	Each detector is supplied complete with junction box, multiple cable entries, earth continuity plate, hinged lid and instruction leaflet, all sealed in a plastic bag inside a shipping carton	
Shipping Details	Shipping carton dimensions: 160mm (6.3") (L) x 215mm (8.5") (W) x 80mm (3.1") (D) Approximate weight: 800g	
Optional Accessories	02000-A-1645	Calibration gas flow housing (for flammable & toxic)
	00780-A-0160	Right angle mounting bracket for ceiling mounting
	02000-A-1640	Weather Housing for use with flammable detector including remote gassing nozzle
	02000-A-1635	Weather Housing for use with toxic/Oxygen detector including remote gassing nozzle
	02000-A-1642	Collecting cone for use with flammable detector
Calibration Equipment	Contact Honeywell Analytics Representative	



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 four 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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