Zareba Signalpoint

The Signalpoint range of flammable, toxic and oxygen gas detectors offer users a low cost solution to their indoor gas monitoring needs.

Zareba Signalpoint

One-Stop Shop
- Flammable, toxic and oxygen versions available
- IP54 as standard
- Suitable for indoor use

Proven Sensor Technology
- Surecell™ electrochemical sensors
- Poison resistant catalytic bead
- Fast and reliable

Combustible Version
- ATEX hazardous area approval
- Performance to EN50054
- Typical 5 year operational life

Toxic and Oxygen Versions
- Indoor non hazardous area use
- Local LED indication of status (operation, A1 and A2)
- Performance to EN45544*
- Typical 2 year operational life
  * H2S version only

Easy to Use
- Factory set operation
- Simple to replace sensors
- Minimal training required

Friendly Installation
- Wall or ceiling mounting
- Integral junction box
- Pre-drilled M20 clearance cable entry

Range of Accessories
- Weather Housing
- Flow adaptor
- Duct mounting kit
- Collecting cone

The Signalpoint range of flammable, toxic and oxygen gas detectors offer users a low cost solution to their indoor gas monitoring needs. Supplied with an integral pre-wired junction box, the detector can be installed using conduit or cable and glands depending on individual site standards.

Two basic arrangements are provided. Flammable detectors offer mV bridge output for use with dedicated gas control systems (such as Unipoint) and are certified under ATEX for use in potentially explosive atmospheres. Toxic and oxygen detectors are designed for use in non explosive atmospheres. They are 2 wire 4-20mA loop powered and can be used with PLC or dedicated gas control systems.

Toxic and oxygen versions of Signalpoint also provide a local LED indication of their status; periodic green flash (OK), flashing amber (warning) and flashing red (alarm). Seconds count and so the front end sensor design ensures fast speed of response even with 'sticky' gases.

Easy installation is provided for. The junction box includes 'hidden' mounting for wall and ceiling fixings. The hinged lid of the junction box ensures both hands are free to complete electrical connections via the M20 clearance cable/conduit entry.

Maintenance requirements are kept simple and to a minimum. Normally used with the Zareba range of industrial controllers, all user adjustments are made at the controller as required. At the end of their operating life, simply replace the sensor before re-configuring the controller. Sensor exchange kits are available to replace the electrochemical sensors used in the toxic and oxygen detectors. The flammable sensor is simply replaced by fitting a new lid complete with sensing element.

Signalpoint offers low cost, easy installation and simple maintenance. As part of any Zareba gas detection system you are assured of being surrounded by gas detection equipment you can trust to keep you safe.
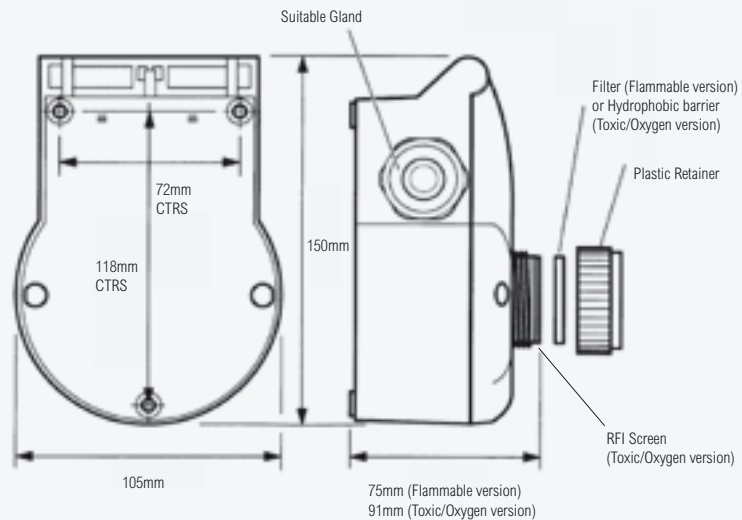
Installation Details

Dimensions

Signalpoint flammable and toxic gas detectors have been designed to provide for user friendly installation. The hinged lid, when opened, reveals three mounting holes (suitable for M3.5 or No. 6 wood srews) thereby removing any need for additional mounting brackets. These mounting holes are outside the weatherproof seal to maintain the IP rating.

The hinged lid ensures hands free, unhindered access, to terminals for easy termination of incoming cables. A pre-drilled M20 clearance entry allows connection via conduit or cable with suitable glands. For toxic and oxygen detectors a weatherproof compression gland is recommended. Where the flammable unit is used in potentially explosive atmospheres a suitably certified cable gland must be used.
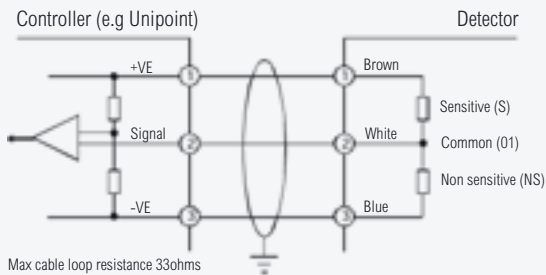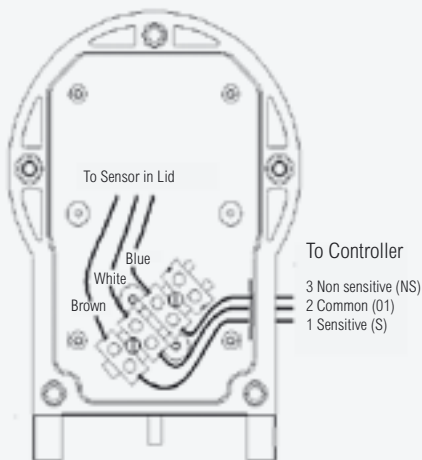
2 or 3 wire cables with a cross sectional areas of $0.5mm^2$ (20AWG) to $2.5mm^2$ (14AWG) may be used. The use of a screen to ensure maximum protection against false alarms is recommended. Where flammable detectors are being installed in potentially explosive atmospheres ensure necessary local codes of practice are followed.

Whether using Signalpoint flammable, toxic or oxygen gas detectors the use of any dedicated Zareba gas detector controller is recommended to ensure a simple, cost effective solution to your total gas monitoring needs.
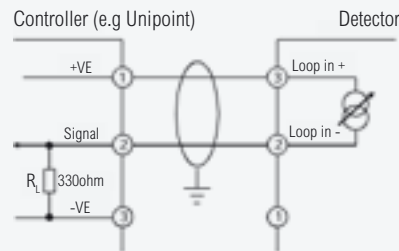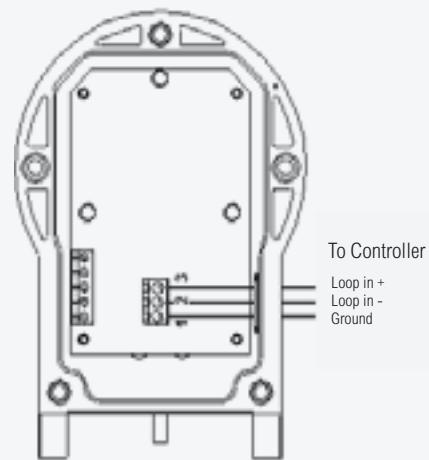
Suitable Gland

Filter (Flammable version) or Hydrophobic barrier (Toxic/Oxygen version)

Plastic Retainer

RFI Screen (Toxic/Oxygen version)

72mm CTRS

118mm CTRS

150mm

105mm

75mm (Flammable version)
91mm (Toxic/Oxygen version)

Flammable & Toxic/Oxygen version

Electrical Connections

To Sensor in Lid

Blue
White
Brown

To Controller

3 Non sensitive (NS)
2 Common (01)
1 Sensitive (S)

To Controller

Loop in +
Loop in -
Ground

Controller (e.g Unipoint)   Detector

+VE   Brown
Signal   Sensitive (S)
     White
     Common (01)
     Non sensitive (NS)
-VE   Blue

Max cable loop resistance 33ohms

Typical Flammable Detector Connections
(3 Wire mV Bridge Circuit).

Controller (e.g Unipoint)   Detector

+VE   Loop in +
Signal   Loop in -
R_L 330ohm
-VE

Typical Toxic Detector Connections
(2 Wire 4-20mA loop).

Technical Summary

General Specification	
Use	Low cost, fixed point indoor gas detector for the protection of personnel and plant from flammable, toxic and oxygen gas hazards

Detectable Gases				
Gas	**Range**	**Warm-up time**	**Operating Temperature** Min	Max
Flammable	100%LEL	< 10 minutes	-30°C / -22°F	+40°C / +104°F
Oxygen	25%VOL	< 5 minutes	-15°C / +5°F	+40°C / +104°F
Carbon Monoxide	100ppm, 200ppm, 500ppm	< 3 minutes	-20°C / -4°F	+40°C / +104°F
Hydrogen Sulfide	20ppm, 50ppm, 100ppm	< 3 minutes	-20°C / -4°F	+40°C / +104°F
Chlorine	5ppm, 15ppm	< 5 minutes	-20°C / -4°F	+40°C / +104°F
Ammonia	50ppm, 1000ppm	< 3 minutes	-20°C / -4°F	+40°C / +104°F

Construction		
Electrical	**Flammable (0-100%LEL)**	**Toxic & Oxygen**
	3 wire mV bridge 2.9-3.5V, 200mA constant current, 0.7W (max.) 4 way terminal block. The connecting cabling should be three core multi-strand plus screen with a conductor size of 0.5mm^2 (20AWG) to 2.5mm^2 (14AWG).	2 wire loop powered 4-20mA (plus screen) 16-30V, 0.9W 3 way terminal block. The connecting cabling should be 2 core multi-strand plus screen, with a conductor size of 0.5mm^2 (20AWG) to 2.5mm^2 (14AWG).
Material	Sensor: Polyphenylene Sulfide (PPS). Integral Junction Box: Impact resistant Nylon.	
Weight	465g (16.4oz)	495g (17.4oz)
Certification	Ex II 2G EEx e d IIC T4 Tamb = -30°C to +40°C BAS98ATEX2085X	Safe area use only
Applicable Standards	This products complies with the relevant CE standards including:	
	EMC to BS EN50081 part 1, BS EN50082 part 1 Performance to EN50054	EMC to BS EN50081 part 1, BS EN50082 part 2 Performance to EN45544

Environmental	
IP Rating	IP54 in accordance with EN60529:1992
Operating Humidity Range	Continuous: 20-90%RH (non condensing), Intermittent: 10-99%RH (non condensing)
Operating Pressure	90-110kPa
Storage Conditions	0°C to +25°C (32°F to +77°F).

Weatherproof seal

2 x M5 Caphead Bolts (Secures lid to base.)

SignalPoint Lid and Sensor Assembly

Rotate the lid fully 180˚ before pressing from base

SignalPoint Base Assembly

Terminal Block (Flammable) PCB/Terminals (Tox. & Ox.)
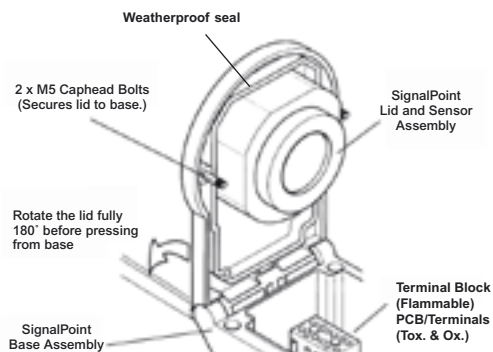
Ordering Information

Ordering Information		
Detectors	2106B1100	Signalpoint 100% LEL Flammable Detector
	2106B1300	Signalpoint H2S 20 ppm Toxic Detector
	2106B1301	Signalpoint H2S 50 ppm Toxic Detector
	2106B1302	Signalpoint H2S 100 ppm Toxic Detector
	2106B1305	Signalpoint CO 100 ppm Toxic Detector
	2106B1306	Signalpoint CO 200 ppm Toxic Detector
	2106B1307	Signalpoint CO 500 ppm Toxic Detector
	2106B1310	Signalpoint Cl2 5 ppm Toxic Detector
	2106B1311	Signalpoint Cl2 15 ppm Toxic Detector
	2106B1313	Signalpoint NH3 50 ppm Toxic Detector
	2106B1314	Signalpoint NH3 1000 ppm Toxic Detector
	2106B1316	Signalpoint O2 25% V/V Toxic Detector
Standard Supply	Each detector is supplied complete with integral junction box, single non threaded M20 entry, hinged lid and instruction leaflet sealed in a plastic bag.	
Optional Accessories	02000-A-1645	Calibration gas flow housing (for flammable and toxic)
	02000-A-3120	Calibration gas flow housing (for toxic adsorbent gases)
	02000-A-1635	Weatherproof cap for use with toxic/oxygen detector including remote gassing nozzle
	02000-A-1640	Weatherproof housing for use with flammable detector including remote gassing nozzle
	02000-A-1642	Collecting cone (flammable gases lighter than air)
	02000-A-3120	Flow housing assembly
	2106B1110	Catalytic bridge to 4-20mA converter
	00780-F-0018	Flammable detector sensor filter
	00910-A-0404	Hydrophobic barrier for use with toxic detectors
	2106D2097	Gas calibration cap for use with toxic detectors sensor

As World leaders in gas detection solutions, Honeywell Analytics' Zareba range of gas detection systems has been designed to provide efficient, practical and cost-effective equipment to protect people from a variety of forms of hazardous gas. The equipment is also simple to install and easy to operate and maintain.

The Zareba range of fixed gas detection

Sensepoint   **Sensepoint Plus**   **Sensepoint Pro**   **Touchpoint 1**   **Touchpoint 4**

Sensepoint range
Designed for industrial use, the Sensepoint range provides an easy way of ensuring legislative requirements are met.

Touchpoint
Designed for industrial use, the Touchpoint range provides an easy way of ensuring legislative requirements are met. It is particularly suited where a number of small, discrete, stand-alone systems are required.

Metro   **Metro controller**

Metro
For commercial environments such as car parks, municipal buildings and retail facilities, Metro offers a fully programmable, addressable gas detection system.

Unipoint

Unipoint is a simple DIN rail mounted controller offering integrators a flexible and low cost solution to incorporate flammable, toxic or oxygen gas detection into their control systems. From car parks and boiler houses to analyzer shelters or crane cabs in offshore facilities.

Honeywell

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Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.