



The Signalpoint Plus provides a cost effective and rugged toxic and oxygen gas monitoring solution for use in the toughest environmental conditions.

Signalpoint Plus



Flexible Operation

- Wide range of gases available
- User programmable detection ranges
- IP66 for in or outdoor use
- Extreme low temperature option

Easy to Use

- Simple plug-in sensors
- Non intrusive, one man operation
- Quick Cal with auto-inhibit
- Local LCD display
- Minimal training required

Friendly Installation

- 2 or 3 wire operation
- Integral junction box with fixings
- Hinged terminal compartment cover
- Standard Metric entries with optional and NPT adaptors
- Use with conduit or cable installations

Cost Effective

- Minimal training required
- One-man operation
- Plug-in sensor replacement
- All necessary accessories included

Potential Applications

- Store houses
- Refrigeration facilities
- Cold stores
- Chemical stores
- Confined spaces
- Laboratories
- Schools
- Municipal buildings
- Car parks
- HVAC plant rooms
- Boiler houses
- Building management systems

The Signalpoint Plus provides a cost effective and rugged toxic and oxygen gas monitoring solution for use in the toughest environmental conditions. A two-wire, 4-20mA loop powered device as standard, the unit can be used outdoors or where areas are routinely washed down as part of the manufacturing process. Signalpoint Plus can also be supplied with an internal sensor heater* for use in extreme cold environments as low as -50°C (-58°F) making it the ideal choice for use in refrigerated applications.

Signalpoint Plus is designed for user friendly operation and straight forward maintenance. A removable cover allows sensors to simply plug into the transmitter without having to open the main terminal housing. The gas type and default sensor range for each sensor is automatically recognized and displayed on the built-in LCD.

Hidden pushbuttons provide user programmable features such as gas range and calibration gas level setting. Non intrusive, one man, calibration is initiated by a magnetically operated switch and the Quick Cal routine, including auto-inhibit to prevent false alarms, walks the user through the process using a series of on screen prompts to ensure right first time set up and operation.

The large terminal compartment includes a hinged cover to provide easy hands free access for wiring. When opened, fixing points are revealed providing secure hidden mounting. A pre-formed (21mm diameter) clearance cable entry is provided with a second easy knockout entry if required.

Signalpoint Plus is ideal for use with a range of dedicated gas monitoring controllers or industry standard PLCs. Either way, users are assured of being protected in all conditions by Honeywell Analytics gas monitoring solutions.

* Third wire required for power to the heater.
Available for certain gas types only.

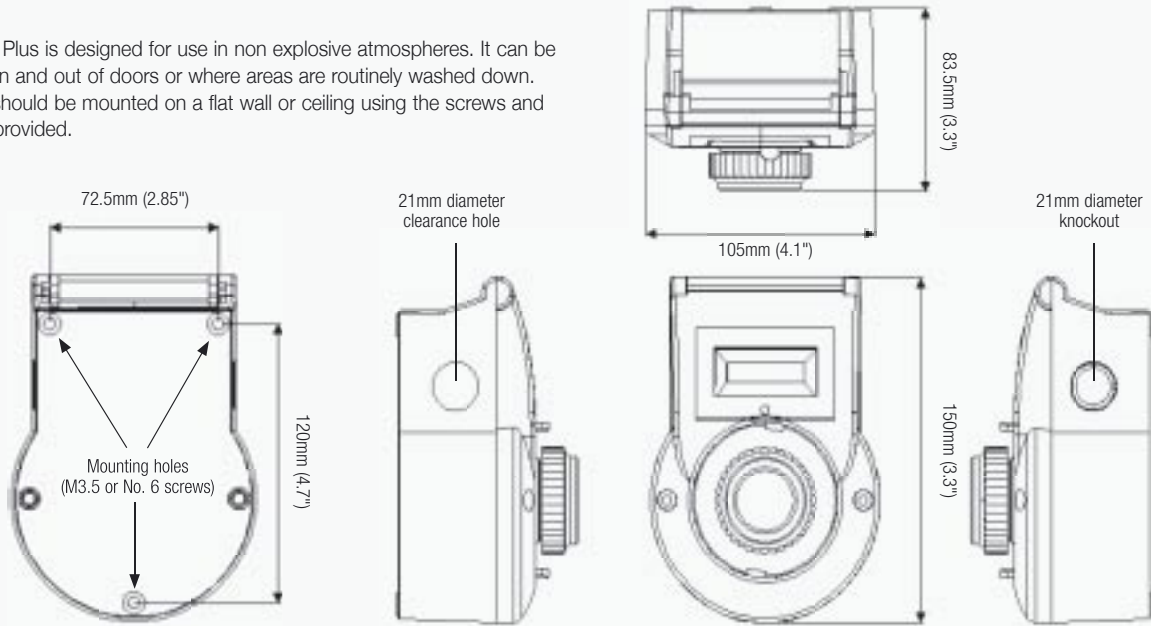


Installation Details



Mechanical Installation

Signalpoint Plus is designed for use in non explosive atmospheres. It can be used both in and out of doors or where areas are routinely washed down. Detectors should be mounted on a flat wall or ceiling using the screws and wall plugs provided.



Electrical Installation

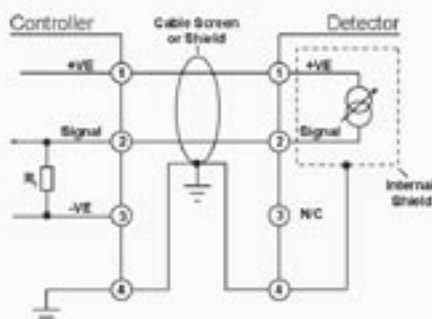


Installation should follow nationally approved wiring practices in the country concerned. The use of 2 or 3 core screened cable is recommended to prevent false alarms due to sources of electromagnetic interference. The use of conduit or suitably mechanically protected cabling and compression glands is recommended for any safety related gas monitoring system. Industrial applications will typically use 1.0mm² (17AWG) to 2.5mm² (14AWG) cross sectional area cable or similar.

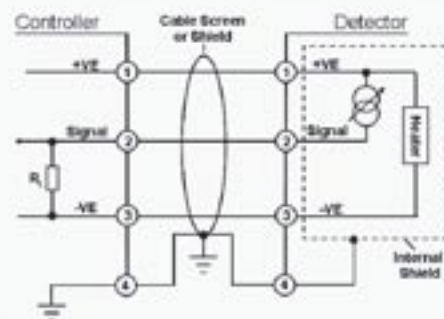
	Standard Version	Heated Version	Sensor Wire Colour
Terminal 1	+VE	+VE	Red
Terminal 2	Signal	Signal	White
Terminal 3	Not used	-VE	Black
Terminal 4	Screen	Screen	Braid



Wiring Schematics



Standard Configuration 2 Wire



Optional Heated Configuration 3 Wire

Technical Summary



Typical Maximum Installed Cable Lengths

Typical Cable Parameters

Cable Size	1mm ² / 17AWG	1.5mm ² / 16 AWG	2.5mm ² / 14 AWG
Ohms/km	18.1	12.1	7.4
Ohms/mile	28.9	19.4	11.8

Typical data only. Always use the data supplied by the manufacturer of the cable to be used for the specific installation. 1km = 0.62 miles.

Standard Configuration (2 Wire)

Minimum Guaranteed Controller Supply (VDC)	Maximum Installed Cable Length km (miles)		
24	8.3 (5.1)	12.5 (7.8)	20.4 (12.6)
23	7.2 (4.5)	10.8 (6.7)	17.7 (11.0)
22	6.2 (3.8)	9.2 (5.7)	15.1 (9.4)
21	5.1 (3.2)	7.6 (4.7)	12.4 (7.7)
20	4.0 (2.5)	6.0 (3.7)	9.8 (6.0)
19	2.9 (1.8)	4.4 (2.7)	7.1 (4.4)
18	1.8 (1.1)	2.7 (1.7)	4.5 (2.8)

Assumes 100 Ohm sense resistor in the associated control card, maximum loop current of 23mA, minimum supply voltage for correct operation of the detector 14VDC. 1Km = 0.62 miles = 3281 feet.

Optional Heated Configuration (3 Wire)

Minimum Guaranteed Controller Supply (VDC)	Maximum Installed Cable Length km (miles)		
24	1.0 (0.6)	1.5 (0.9)	2.4 (1.5)
23	0.9 (0.5)	1.3 (0.8)	2.2 (1.4)
22	0.8 (0.5)	1.2 (0.7)	1.9 (1.2)
21	0.7 (0.4)	1.0 (0.6)	1.7 (1.0)
20	0.6 (0.4)	0.9 (0.5)	1.5 (0.9)
19	0.5 (0.3)	0.7 (0.4)	1.2 (0.7)
18	0.4 (0.2)	0.6 (0.4)	1.0 (0.6)

Assumes maximum detector supply current of 250mA at the minimum supply voltage for correct operation of the detector of 14VDC. 1km = 0.62 miles = 3281 feet.

General Specifications

Use	Rugged and reliable gas detector for the protection of personnel from toxic and oxygen gas hazards. Suitable for use in non explosive atmospheres in and out of doors.
User Interface	Non intrusive, one man routine operation via local display and magnetically operated switch. Hidden pushbuttons for configuration during commissioning. 4-20mA operation available in both 2 wire and 3 wire 4-20mA configurations.

Detectable Gases

Ident Name	Recommended Gas Range	User Selectable Gas Range (Step Value)
Standard 2 Wire Configuration		
O Oxygen	0.0-25.0%VOL	25%VOL only
H Hydrogen Sulfide	0-50ppm	50 to 500ppm (50)
C Carbon Monoxide	0-500ppm	100 to 999ppm (100)
D Carbon Dioxide	0.0-3.0%	1.0% to 3.0%Vol (1.0)
S Sulfur Dioxide	0.0-20.0ppm	5.0 to 20.0ppm (5.0)
A Ammonia	0-200ppm	50 to 200ppm (50)
A Ammonia	0-1,000ppm	200 to 1,000ppm (50)
L Chlorine	0.0-20.0ppm	5.0 to 20.0ppm (5.0)
X Chlorine Dioxide	0.0-3.0ppm	3.0ppm only
N Nitrogen Dioxide	0.0-50.0ppm	5.0 to 50.0ppm (5.0)
G Hydrogen	0-1,000ppm	1,000ppm only

Option 3 Wire Heated Configuration

A Ammonia	0-200ppm	50 to 200ppm (50)
A Ammonia	0-1,000ppm	200 to 1,000ppm (50)
D Carbon Dioxide	0.0-3.0%VOL	1.0 to 3.0%VOL (1.0)

Technical Summary & Ordering Information

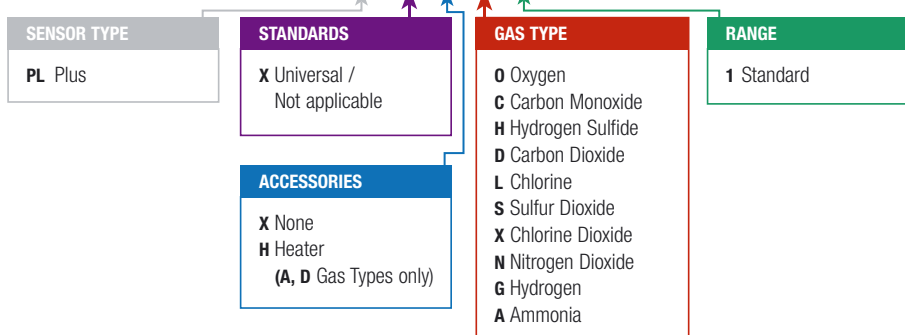


General Specifications / cont.

Configuration	Standard	Heated
Electrical Connections and Power	2 wire loop powered 12-28VDC operation 23mA max. over range	3 wire common ground 14-28VDC operation 250mA max. current consumption
Signal	0-100%FSD 4-20mA Max. over range 23mA 4mA (toxic) or 17.4mA (for oxygen) auto inhibit during calibration Fault < 3mA	0-100%FSD 4-20mA Max. over range 23mA 4mA (toxic) or 17.4mA (for oxygen) auto inhibit during calibration Fault < 3mA
Recommended Cable	2 wire with screen 0.5mm ² (20AWG) to 2.5mm ² (14AWG)	3 wire with screen 0.5mm ² (20AWG) to 2.5mm ² (14AWG)
Construction		
Material	Black ABS/PPS	
Maximum Dimensions	150 x 105 x 91mm 5.9 x 4.1 x 3.5 inches	
Weight	479 g (15.4oz.)	
Environmental		
IP Rating	IP66 as standard suitable for use in and out of doors (EN60529:1992)	
Operating Temperature	-50°C to +55°C (-58°F to 131°F) depending upon configuration and sensor (Contact your local representative for further details)	
Operating Humidity	Continuous 10-90%RH (non condensing)	
Operating Pressure	90-110kPa	
Storage Conditions	15°C to 30°C (59°F to 86°F) / 30-70%RH (non condensing)	
Approvals	CE compliant in accordance with: EMC Directive 89/336/EEC as amended by 92/31/EEC EN50270 Type 2 Heavy Industrial for susceptibility EN55011B Light Industrial for emissions	

Ordering Information

e.g. SGPT [PL] [X] [X] [H] [X] = SGPTPLXXA1



Standard Supply	Each unit is supplied complete with required sensor, 1 x calibration magnet, 1 x Allen key, 1 x clearance (21mm) cable/conduit entry (LHS), 1 x clearance knockout (RHS), 1 x screw fixing kit, instruction manual and suitable transport packaging.	
Shipping Details	Shipping carton dimensions: L230mm (9") x W114mm (4.5") x H89mm (3.5") Approximate weight: 530g (17oz)	
Optional Accessories	M2034NPTLN 02000-A-3120 02000-A-1635 Calibration Gases	M20 male to 3/4"NPT female adaptor including locknut and sealing washer Calibration gas flow housing (for toxic adsorbent gases) Weatherproof cap including remote gassing nozzle Contact Honeywell Analytics Representative

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

Find out more

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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.

Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.
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