Zareba Sensepoint Pro

Comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres

Sensepoint Pro

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

Global Certifications*
- US, Canada and Europe
- Compliant with UL, CSA and ATEX standards
- Includes hazardous area AND performance approval

Convenient to Use
- Backlit LCD for dark environments
- Fully configurable via IR remote control
- 4-20mA and relay operation
- Auto-inhibit during maintenance

Cost Effective
- Minimal training required
- Non-intrusive, one-man operation
- Plug-in sensor replacement
- All necessary accessories included

Friendly Installation
- Universal mounting bracket
- 3⁄4" NPT and M20 entries included as standard
- Suitable for conduit or SWA cable/glands installations

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

*Pending - Contact Honeywell Analytics for more information

The Sensepoint Pro provides comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres, both in and out of doors. Users can modify detector operation using the remote control provided without ever needing to open the unit. This enables one man, non-intrusive, operation and reduces routine maintenance time and costs.

All detectors are supplied pre-configured and include two programmable alarm relays as well as an industry standard 4-20mA output. The scale, range, calibration, relay operation and alarm set points of the detector may all be adjusted via the transmitters' backlit LCD and an intrinsically safe remote control that is also suitable for use in potentially explosive atmospheres. Outputs are automatically inhibited during adjustment thereby reducing the risk of false alarm at the control panel during maintenance.

Sensepoint Pro is supplied with all necessary accessories for easy installation. The detector can be mounted on a wall or round support pole using the universal bracket provided. The detector is ideal for use with either conduit or steel wire armored cable and glands. A 3/4"NPT entry and M20 adaptor are included as standard. A weatherproof cap is also included for use in the harshest outdoor conditions.

Overall, the Sensepoint Pro ensures easy installation and the fastest routine operation by removing the need for hot work permits in hazardous areas. Using an easy to replace plug-in sensor, downtime is also reduced and on-going costs are minimized through the use of poison resistant flammable sensors and patented Surecell™ toxic sensor technology.

Sensepoint Pro meets the more demanding user requirements but assures you of the most cost effective solution to your gas detection needs in the long run.
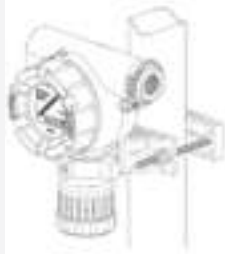
Installation Details

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Sensepoint Pro is designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitably approved steel wire armored cable and glands (M20 or 3/4"NPT) or conduit (3/4"NPT).

Use 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.

Various accessories are available for different applications.
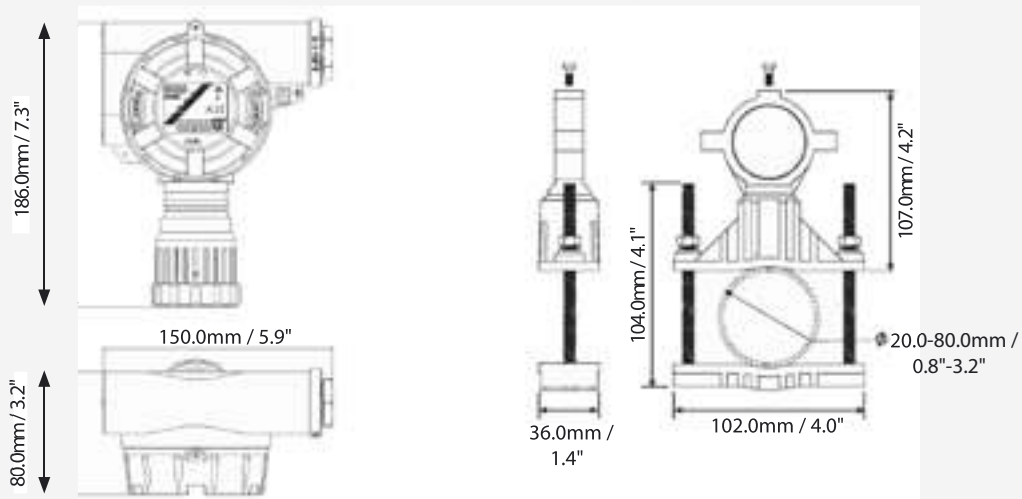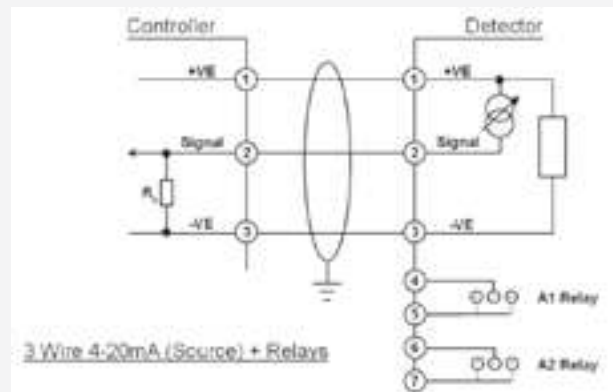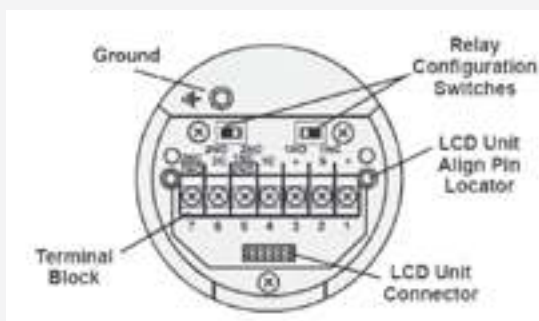
Poie Mount

Wall Mount

Duct Mount

Collecting Cone

Dimensions

186.0mm / 7.3"

150.0mm / 5.9"

80.0mm / 3.2"

104.0mm / 4.1"

107.0mm / 4.2"

36.0mm / 1.4"

102.0mm / 4.0"

Ø20.0-80.0mm / 0.8"-3.2"

Electrical Connections

Ground

Relay Configuration Switches

LCD Unit Align Pin Locator

Terminal Block

LCD Unit Connector

Controller

Detector

+VE

Signal

-VE

A1 Relay

A2 Relay

3 Wire 4-20mA (Source) + Relays

Technical Summary

General Specification

Use	3 wire, 4-20mA, fixed point gas detector with built in alarm relays for the protection of personnel and plant from flammable, toxic and oxygen gas hazards. Incorporating transmitter with local display and fully configurable via remote handheld control

Detectable Gases

Gas		Measuring Range			Operating Temperature*	
Ident	Name	1[#]	2	3	Min	Max
F	Flammable	0-100% LEL			-20°C / -4°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 Sulfide[+]	0-50ppm	0-20ppm	0-100ppm	-20°C / -4°F	50°C / 122°F
G	Hydrogen	0-1000ppm			-5°C / 23°F	40°C / 104°F

[+] Surecell™ Sensor Technology   [#] Standard range   *Check certified temperature

Electrical

General	3 wire connection, 12-30Vdc, 4-20mA (source), common 0Vdc 7 x screw terminals for 0.5mm² (20AWG) to 2.5mm² (14AWG) wire Maximum operating current: 300mA (flammable), 150mA (toxic and oxygen) Maximum peak in rush current: 600mA
Signal	22mA — Maximum over range 4-20mA — Normal operation: 0-100% full scale 2mA or 4mA — Output inhibited (2mA or 17.4mA for oxygen) 0mA — Fault
Alarm Relays	2 x 3A@240Vac alarm relays User configurable alarm trip point, normally energized/de-energized operation Link selectable output as NO or NC

Construction

Material	Main body: Powder coated aluminum (ADC12) Sensor: 316 stainless steel Weatherproof cap: Aluminum, 316 stainless steel mesh	
Weight	1450g	
Certification ATEX	**Sensepoint Pro** Ex II 2G EEx d IIC T4 (T$_{amb}$ = -20°C to +50°C / -4°F to +122°F)	**Sensepoint Pro Remote Control ZHC1** Ex II 2G EEx ib IIC T4 (T$_{amb}$ = -20°C to +50°C / -4°F to +122°F)
UL	Class 1, Div 1, Groups B, C, D (T$_{amb}$ = -20°C to +50°C / -4°F to +122°F)	Class 1, Div 1, Groups A, B, C, D (T$_{amb}$ = -20°C to +50°C / -4°F to +122°F)
Applicable Standards	North America: UL1203 Europe: CE, ATEX, EMC (EN50270) Contact Honeywell Analytics for latest information	

Environmental

IP Rating	IP65 as standard 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. SP PR **U** X **F** 1 = SPPRUXF1

STANDARDS	RANGE	GAS TYPE
U USA (UL)	**1** Refer to	**F** Flammable
A Europe (ATEX)	**2** Detectable Gases	**O** Oxygen
	3 Table Above	**C** Carbon Monoxide
		H Hydrogen Sulfide
		G Hydrogen

Standard Supply

Each detector is supplied complete with IS remote control, 3⁄4"NPT entry, 3⁄4"NPT to M20 adaptor, wall mounting bracket, pole mounting bracket, weatherproof cap, necessary Allen keys and instruction manual all sealed in a plastic bag inside a shipping carton

Shipping Details

Shipping carton dimensions: L312mm (12.3") x W223mm (8.8") x D110mm (4.3")
Approximate weight: 1.5Kg (3.3llbs)

Optional Accessories

SPPPCC Collecting cone
SPPPCAL Flow adaptor
SPPPDM Duct mounting kit

Calibration Equipment

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 |

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

Find out more
www.honeywellanalytics.com

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.

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