Sensepoint Pro

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

Sensepoint Pro

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.

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 operational life:
  - 5 years (Catalytic)
  - 2 years (Electrochemical cells)

Global Certifications
- North American and European
- Compliant with UL 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
- ¾" 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

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 ¾" 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 minimised 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.
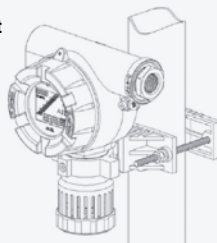
Installation Details

Installation Details

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 ¾" NPT) or conduit (¾" NPT).
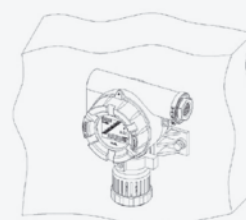
Use 0.5mm^2 (20AWG) to 2.5mm^2 (14AWG) cross sectional area cable, as needed to ensure minimum operating voltage at the detector, depending upon installed cable length.

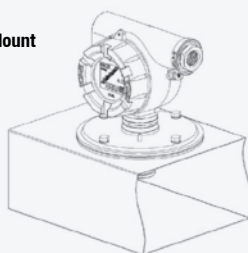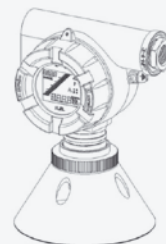Various accessories are available for different applications.
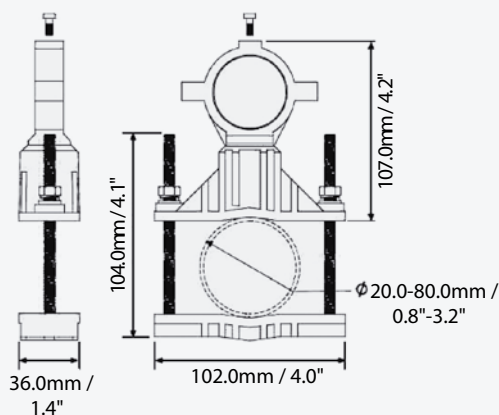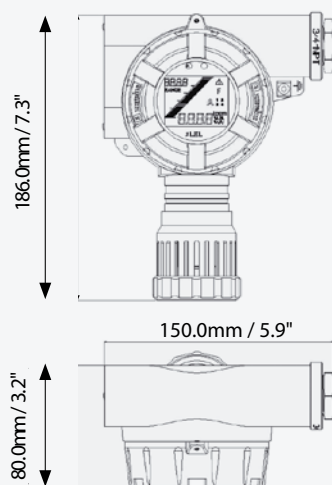
Pole Mount

Wall Mount

Duct Mount

Collecting Cone

Dimensions

186.0mm / 7.3"

150.0mm / 5.9"

80.0mm / 3.2"

107.0mm / 4.2"

104.0mm / 4.1"

36.0mm / 1.4"

102.0mm / 4.0"

⌀ 20.0-80.0mm / 0.8"-3.2"

Electrical Connections

Ground

Relay Configuration Switches

LCD Unit Align Pin Locator

Terminal Block

LCD Unit Connector

2NC 2NO 2C 1NC 1NO 1C 1NO 1NC - S +

7 6 5 4 3 2 1

Controller

Detector

+VE 1

Signal 2

R_L

-VE 3

+VE 1

Signal 2

-VE 3

4
5

A1 Relay

6
7

A2 Relay

3 Wire 4-20mA (Source) + Relays
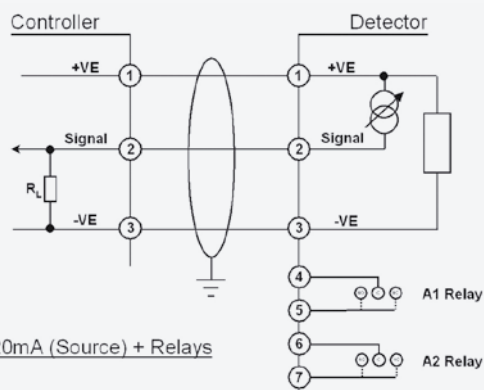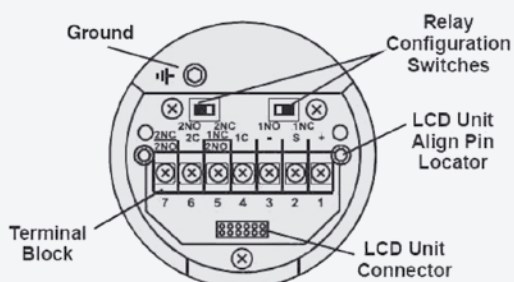
Technical Summary

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			-25°C / -13°F	55°C / 131°F
O	Oxygen	0-25% VOL			-15°C / 5°F	40°C / 104°F
C	Carbon Monoxide [+]	0-200ppm	0-500ppm		-25°C / -13°F	55°C / 131°F
H	Hydrogen Sulphide [+]	0-50ppm	0-20ppm	0-100ppm	-25°C / -13°F	55°C / 131°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 @ 12VDC / 150mA @ 24VDC (flammable), 150mA @ 12VDC / 75mA @ 24VDC (toxic and Oxygen) Maximum peak in rush current: 600mA @ 12VDC / 300mA @ 24VDC
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 1A @ 24VDC alarm relays User configurable alarm trip point, normally energised / de-energised 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 2 G Ex d IIC T4 (T_{amb} = -40°C to +65°C / -40°F to +149°F)	Sensepoint Pro Remote Control ZHC1 ⟨Ex⟩ II 2G EEx ib IIC T4 (T_{amb} = -25°C to +55°C / -13°F to +131°F)
UL	Class 1, Div 1, Groups B, C, D (T_{amb} = -25°C to +55°C / -13°F to +131°F)	Class 1, Div 1, Groups A, B, C, D (T_{amb} = -25°C to +55°C / -13°F to +131°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

Ordering Information

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 Sulphide
		G Hydrogen

Standard Supply

Each detector is supplied complete with IS remote control, ¾" NPT entry, ¾" 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: L 312mm (12.3") x W 223mm (8.8") x D 110mm (4.3")
Approximate weight: 1.5kg (3.3lbs)

Optional Accessories

SPPPCC Collecting cone
SPPPCAL Flow adaptor
SPPPDM Duct mounting kit

Calibration Equipment

Contact a 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 4 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
www.honeywellanalytics.com

Contact Honeywell Analytics:

Europe, Middle East, Africa, India
Life Safety Distribution AG
Wilstrasse 11-U31
CH-8610 Uster
Switzerland
Tel: +41 (0)44 943 4300
Fax: +41 (0)44 943 4398
gasdetection@honeywell.com

Americas
Honeywell Analytics Inc.
405 Barclay Blvd.
Lincolnshire, IL 60069
USA
Tel: +1 847 955 8200
Toll free: +1 800 538 0363
Fax: +1 847 955 8208
detectgas@honeywell.com

Asia Pacific
Honeywell Analytics Asia Pacific
#508, Kolon Science Valley (I)
187-10 Guro-Dong, Guro-Gu
Seoul, 152-050,
Korea
Tel: +82 (0)2 2025 0300
Fax: +82 (0)2 2025 0329
analytics.ap@honeywell.com

Technical Services
ha.emea.service@honeywell.com

www.honeywell.com

Honeywell

11078