Sensepoint Plus

The Sensepoint Plus monitors flammable, toxic and oxygen gas hazards in potentially explosive atmospheres

The Sensepoint Plus monitors flammable, toxic and oxygen gas hazards in potentially explosive atmospheres and provides an industry standard 4-20mA output for connection to a wide range of control equipment. Incorporation of a transmitter at the sensor enables a single user to carry out routine maintenance of the detector and removes the need for additional personnel at the associated controller.

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 and Europe
- UL and ATEX hazardous area approvals

Convenient to Use
- Industry standard 4-20mA output
- Built in 'inhibit' switch
- User configurable setting
- Ideal for PLC based systems

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

Friendly Installation
- Universal mounting bracket
- Metric and NPT compatible
- Suitable for conduit or armored cable/glands installations

Range of Accessories
- Calibration cup
- Duct mounting kit
- Collecting cone

*Pending - Contact Honeywell Analytics for more information

The built-in transmitter includes a user configurable 'inhibit switch' that clamps the current output of the detector to a known level so that during maintenance no false alarms can be triggered at associated control equipment. As such, the Sensepoint Plus can be easily maintained even when used with 'blind' PLC type control systems.

Sensepoint Plus 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 armored cable and glands. A 3/4"NPT entry and M20 adaptor are supplied as standard. A weatherproof cap is also included for use in the harshest outdoor conditions.

Overall, the Sensepoint Plus provides easy installation and simple maintenance. Using an easy to replace plug-in sensor, downtime is reduced and the on-going costs of ownership is minimized through the use of poison resistant flammable sensors and patented Surecell™ toxic sensor technology.

Sensepoint Plus and the Honeywell Analytic's range of industrial gas detection systems can be trusted to provide a safe working environment for all.
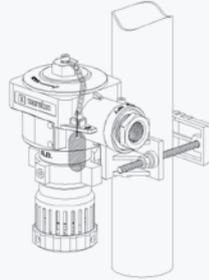
Installation Details

Sensepoint Plus is designed for use in potentially explosive atmospheres. As such, installation should follow national guidelines using suitably approved armored cable and glands (M20 or 3/4"NPT) or conduit (3/4"NPT).
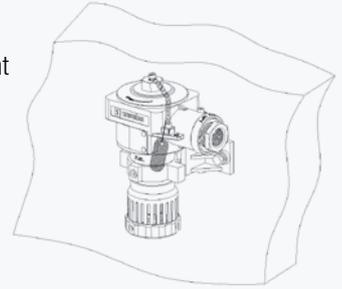
Use screened 0.5mm² (20AWG) to 2.5mm² (14AWG) cross sectional area cable, as needed to ensure minimum operating voltage at the detector, depending upon installed cable length.
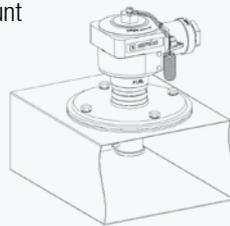
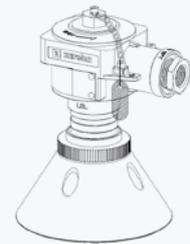Various accessories are available for different applications.
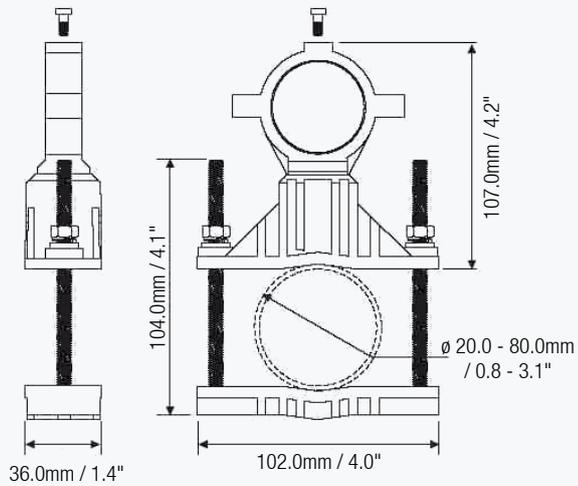
Pole Mount

Wall Mount

Duct Mount

Collecting Cone

Dimensions

174.8mm / 6.9"
126.2mm / 5.0"
74.0mm / 2.9"

104.0mm / 4.1"
36.0mm / 1.4"
107.0mm / 4.2"
ø 20.0 - 80.0mm / 0.8 - 3.1"
102.0mm / 4.0"
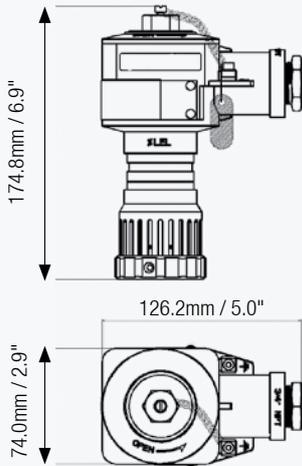
Electrical Connections

Calibration Adjustment

Terminal Block

Ground

Test Points

Output Inhibit Switches

SPAN
ZERO
TP+
TP-
+ 1   S 2   - 3
NORMAL
INHIBIT
2mA
4mA

Controller

Detector

+VE
Signal
-VE

R$_L$ 100ohm

+VE
Signal
-VE

3 Wire 4-20mA (Source)
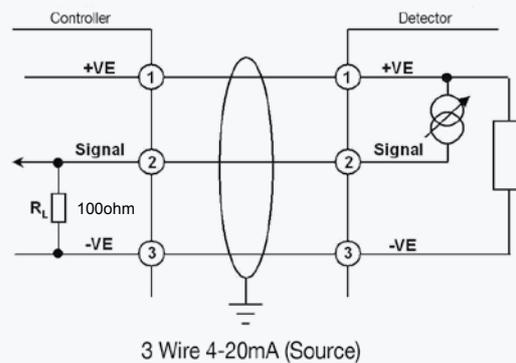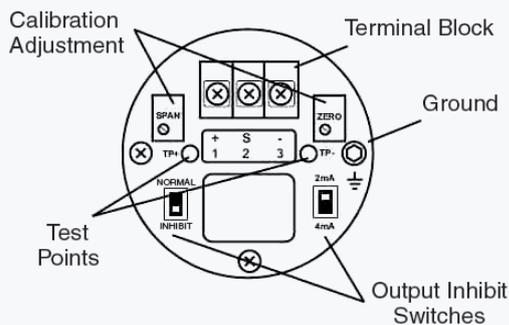
Technical Summary

General Specification

Use	3 wire, 4-20mA, fixed point gas detector for the protection of personnel and plant from flammable, toxic and oxygen gas hazards. Incorporating transmitter with user configurable 'inhibit' switch to facilitate one man operation

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™ Sensing Technology   *Standard   *Check certified temperature

Construction

Electrical	3 wire connection, 12-30Vdc, 4-20mA (source), common 0Vdc 3 x screw terminals for 0.5mm² (20AWG) to 2.5mm² (14AWG) Maximum operating current: 200mA (flammable), 30mA (toxic and oxygen) Maximum peak in rush current: 400mA
Signal	4-20mA — Normal operation: 0-100% full scale 2mA or 4mA — Output inhibited (17.4mA Oxygen only) 0mA — Sensor fault 22mA — Maximum over range
Material	Main body: Powder coated aluminum (ADC12) Sensor: 316 stainless steel Weatherproof cap: Aluminum, 316 stainless steel mesh
Weight	950g
Certification	Ex II 2 G D EEx d IIC T6 T_{amb} = -20°C to +50°C / -4°F to +122°F Class 1, Div 1, Groups B, C, D T_{amb} = -20°C to +50°C / -4°F to +122°F)
Applicable Standards	North America: UL1203 Standards Europe: CE, ATEX, EMC (EN50270) Contact Honeywell Analytics for latest approval 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

e.g. SP PL U X F 1 = SPPLUXF1

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

Standard Supply	Each detector is supplied complete with 3/4"NPT entry, 3/4"NPT to M20 adaptor, wall mounting bracket, pole mounting bracket, weatherproof cap, Allen keys (for bracket), and instruction leaflet 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: 1000g
Optional Accessories	SPPPCC Collecting cone SPPPCAL Flow adaptor SPPPDM Duct mounting kit
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 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

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