The Sensepoint range of flammable, toxic and Oxygen gas detectors offers users a cost-effective solution to their gas monitoring needs.
The Sensepoint range of flammable, toxic and Oxygen gas detectors offers users a cost-effective solution to their gas monitoring needs, in or out of doors and even in potentially explosive atmospheres. Supplied with a pre-wired junction box, this detector can be installed using conduit or armoured cable and glands depending on the specific needs of the application.

Sensepoint flammable and toxic gas detectors are designed for use in potentially explosive atmospheres, and allow for easy access to terminals via the hinged lid of the junction box. Installation should follow national guidelines using suitably approved armoured cable and glands or conduit.

Supplied with an earth continuity plate for increased resistance to the effects of RFI, the junction box offers the installer a choice of ½”, ¾” and M20 connection via conduit or armoured cable and Ex e certified cable glands. Terminals are suitable for use with 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.

Sensepoint flammable, toxic and Oxygen gas detectors are designed for direct connection with the Honeywell Analytics’ range of Touchpoint controllers.

Contact Honeywell Analytics for details.
Installation Details

Dimensions

Sensepoint flammable and toxic gas detectors offer multiple cable entry sizes as standard and allow for quick and easy installation via the hinged lid of the junction box.

The junction box is suitable for mounting onto any suitable flat surface able to support the weight of the unit such that when installed, the sensor is in a downward position. For ceiling mounting an optional bracket is available to allow for this.

Cable can be entered into the junction boxes via a gland or conduit through one or more positions in the top or sides of the unit.

Flammable version  Toxic and Oxygen version

Terminal arrangement

Electrical connections

Controller  +VE  Signal  Active  Signal  Detector  +VE  Signal  Non-active

3 wire mV bridge circuit

Controller  +VE  Signal  100 ohm  -VE  \( R_L \)

2 wire 4-20mA (sink)
### Technical Summary

**General specification**

**Use**
Cost-effective, fixed point gas detector for the protection of personnel and plant from flammable, toxic and Oxygen gas hazards

**Detectable gases**

<table>
<thead>
<tr>
<th>Gas Name</th>
<th>Measuring range</th>
<th>Operating temperature*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable</td>
<td>0-100% LEL</td>
<td>Min: -40°C / -40°F, Max: 50°C / 122°F</td>
</tr>
<tr>
<td>Oxygen</td>
<td>0-25% VOL</td>
<td>Min: -15°C / 5°F, Max: 40°C / 104°F</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>0-200ppm</td>
<td>Min: -20°C / -4°F, Max: 50°C / 122°F</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>0-50ppm</td>
<td>Min: -25°C / -13°F, Max: 50°C / 122°F</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>0-1000ppm</td>
<td>Min: -5°C / 23°F, Max: 40°C / 104°F</td>
</tr>
<tr>
<td>Chlorine</td>
<td>0-5ppm</td>
<td>Min: -20°C / -4°F, Max: 50°C / 122°F</td>
</tr>
<tr>
<td>Sulphur Dioxide</td>
<td>0-15ppm</td>
<td>Min: -15°C / 5°F, Max: 40°C / 104°F</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>0-10ppm</td>
<td>Min: -15°C / 5°F, Max: 40°C / 104°F</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0-50ppm</td>
<td>Min: -20°C / -4°F, Max: 40°C / 104°F</td>
</tr>
</tbody>
</table>

+ SureCell™ Sensing Technology

**Construction**

**Electrical**

- **Flammable (0-100% LEL)**: 3 wire mV bridge, 2.9-3.5V, 0.7W, 200mA constant current
- **Toxic & Oxygen**: 2 wire loop powered 4-20mA, (plus screen), 16-30Vdc, 0.9W
- **Junction Box**: Earth continuity plate, BK4 terminal block (4 way)

**Material**

- Polyphenylene Sulphide (PPS)
- Polyphenylene Sulphide (PPS)
- Fire retardant GFP

**Weight**

- 190g
- 185g (205g Oxygen)
- 600g

**Certification**

- Ex d IIC T6 Gb
- Ex tb IIIC T85ºC Db
- IP66
- Sira 06ATEX3185

**Applicable standards**

This product complies with the relevant CE standards including:
- EMC to EN50270
- Flammable to EN60079-29-1
- Toxic to EN445544 (#H, # only)

**Environmental**

**IP rating**

- IP65 standard, IP66 with weather protection 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. SPSTAX H 1 = SPSTXXH1**

<table>
<thead>
<tr>
<th>GAS TYPE</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>F Flammable</td>
<td>1 Refer to Detectable Gases Table Above</td>
</tr>
<tr>
<td>G Oxygen</td>
<td>2</td>
</tr>
<tr>
<td>C Carbon Monoxide</td>
<td>3</td>
</tr>
<tr>
<td>H Hydrogen Sulphide</td>
<td></td>
</tr>
<tr>
<td>G Hydrogen</td>
<td></td>
</tr>
<tr>
<td>L Chlorine</td>
<td></td>
</tr>
<tr>
<td>S Sulphur Dioxide</td>
<td></td>
</tr>
<tr>
<td>N Nitrogen Dioxide</td>
<td></td>
</tr>
</tbody>
</table>

**Standard Supply**

Each detector is supplied complete with junction box, multiple cable entries, earth continuity plate, hinged lid and instruction leaflet, all sealed in a plastic bag inside a shipping carton.

**Shipping Details**

Shipping carton dimensions: 160mm (6.3") (L) x 215mm (8.5") (W) x 80mm (3.1") (D)  
Approximate weight: 800g

**Optional Accessories**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>02000-A-1645</td>
<td>Calibration gas flow housing (for flammable &amp; toxic)</td>
</tr>
<tr>
<td>00780-A-0160</td>
<td>Right angle mounting bracket for ceiling mounting</td>
</tr>
<tr>
<td>02000-A-1640</td>
<td>Weather Housing for use with flammable detector including remote gassing nozzle</td>
</tr>
<tr>
<td>02000-A-1635</td>
<td>Weather Housing for use with toxic/Oxygen detector including remote gassing nozzle</td>
</tr>
<tr>
<td>02000-A-1642</td>
<td>Collecting cone for use with flammable detector</td>
</tr>
</tbody>
</table>

**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 four 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

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01/12
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