



**High temperature sensor
for combustible gases**

Sensepoint High Temperature Sensor



Excellent Performance

- Certified for hazardous area operation up to +150°C (+302°F)
- Alarm trip points as low as 5% LEL
- Fast speed of response
- Poison resistant detectors
- Low power consumption

Cost Effective

- Low cost disposable sensor
- Greater than 5 year typical operating life

Reliable Operation

- Thermally matched beads provide optimum accuracy and stability
- Proven technology from the World leader in combustible gas detection

Flexibility

- Measuring ranges from 0-20% LEL to 0-100% LEL
- Wide range of accessories

Robust Construction

- 316 Stainless Steel sensor body
- ATEX/ IECEx approved design

The Sensepoint High Temperature Sensor has been specifically designed for the detection of combustible gases in high temperature hazardous area locations. Typical applications include turbine enclosures and drying ovens used in solvent based printing and coating machines.



These applications require a sensor that provides reliable and stable detection allowing low level alarm settings across a wide temperature range. Utilising a specially matched pair of Honeywell poison resistant combustible gas detection elements, the Sensepoint High Temperature Sensor has a very stable baseline allowing alarm trip points to be set as low as 5% LEL across a temperature range of -55°C to +150°C (-67°F to +302°F). The gas measuring range can be configured from 0-20% LEL up to 0-100% LEL depending on the type of controller used.

The detector elements are housed in an explosion proof assembly, and provide an industry standard 3 wire mV bridge output which can be connected to a suitable control device or converted to an analog output signal via a field transmitter.



General Specification



General Specification ¹	
Range	0-20% LEL, 0-100% LEL (Control card dependent)
Speed of Response²	T60 Less than 6 seconds T90 Less than 10 seconds
Minimum Alarm Level³	5% LEL
Output Signal	mV bridge
Operating Temperature	-55°C to +150°C (-67°F to +302°F)
Operating Humidity	Continuous: 20 to 90% RH Intermittent: 10 to 99% RH
Operating Pressure	75 to 110kPa (750 to 1100mbar)
Stability (zero)	With time: Less than ±5% LEL / year With temperature: Less than ±3% LEL With humidity: Less than ±3% LEL With pressure: Less than ±3% LEL
Stability (span)	With time: Less than ±5% LEL / year With temperature: Less than ±4% LEL With humidity: Less than ±3% LEL With pressure: Less than ±3% LEL
Linearity	Better than ±5% fsd
Repeatability	Better than ±2% LEL
Warm-up Time	30 minutes
Detector Operating Life⁴	More than 5 years (typical)
Storage Life	Typically, no degradation has been observed in clean, stable conditions for up to 5 years
Power Consumption	0.7W at 200mA
Enclosure Material	316 Stainless Steel
Mounting Thread	M20, M25 or ¾" NPT
Weight	225g (7.9oz)
Certification	 II 2 GD Ex d IIC T3 Gb T _{amb} -55°C to +150°C  tb IIC T200°C Db IP66 A21 Baseefa08ATEX0264X IECEx BAS08.0069X

Notes:

1. Typical performance figures for a sensor calibrated on 10% LEL methane and tested at 20°C and 50% RH.
2. T60 / T90 defined as the time to achieve 60% and 90% of the signal obtained after 5 minutes exposure to 50% FSD gas concentration.
3. With recommended 3 month calibration period.
4. In clean atmosphere.

