



**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

- Specially matched 'Sieger' detectors provide highest 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 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. Utilizing a specially matched pair of Sieger 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 -40°C to +150°C (-40°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

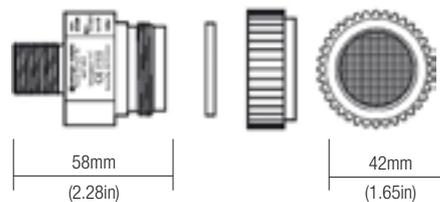


General Specification¹

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	-40°C to +150°C (-40°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 3/4 NPT	
Weight	225g (7.9oz)	
Certification	Baseefa02ATEX0242X  II 2G EExd IIC	
ATEX	(Assessed for Hazardous area ignition risks) T3 (Tamb - 40° to +150°C)	

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.



As World leaders in gas detection solutions, Honeywell Analytics' Sieger systems provide the most efficient, practical and cost-effective fixed-point equipment. Wherever protection is required from flammable or toxic gases, you can rely on our equipment to provide practical solutions and to help keep your business running safely and profitably.

The Sieger range of premium fixed gas detection



Apex

Typically used in the oil and gas distribution, petroleum extraction and chemical manufacturing industries, the Apex gas detector and transmitter functions across a wide range of detectable flammable and toxic gases. With its rugged 316 stainless steel enclosure, it is especially suited for extreme conditions, and provides a cost-effective gas detection solution for a wide range of applications.



Searchline Excel

Searchline Excel Cross Duct™ is an open path infrared gas detector for the detection of Hydrocarbons within HVAC air intakes and ventilation ducting systems up to 5 meters in width.

It is based on the proven Searchline Excel, which covers ranges up to 200m.

ClearShield™ glass coating, infrared beam and heated optical surfaces all combine to reduce downtime and increase system availability.



Searchpoint Optima Plus

Designed for use in potentially explosive atmospheres in harsh environmental conditions, SearchPoint Optima Plus is ideal where speed of response, reduced maintenance and failsafe operation is essential. Common applications include offshore platforms, production storage and offloading vessels, and oil and gas terminals.



Signalpoint

Signalpoint is a self-contained gas sensor system for either combustible or toxic gases, designed to make installation simple and maintenance minimal. Constructed in strong plastic, it is particularly suited for indoor applications in light industrial environments.



System 57

The System 57 controller provides display and alarm facilities for the full range of gas detectors. It comprises a rack unit with mounting options for channel control cards and interface cards.

Find out more

www.honeywellanalytics.com

Customer business centre

Europe and the rest of the world

Honeywell Analytics AG
 Wilstrasse 11-U11
 CH-8610 Uster
 Switzerland
 Tel: +41 (0)44 943 4300
 Fax: +41 (0)44 943 4398
sales@zelana.co.uk

Customer business center

Americas

Honeywell Analytics Distribution, Inc.
 400 Sawgrass Corporate Pkwy
 Suite 100
 Sunrise, FL 33325
 USA
 Tel: +1 954 514 2700
 Toll free: +1 800 538 0363
 Fax: +1 954 514 2784
sales@zelana.com

www.honeywell.com



Searchflame 16

Searchflame 16 is a range of optical flame detectors for detection of Hydrocarbon and non-Hydrocarbon flaming fires in designated hazardous areas. Operating on UV or UV/IR principles, they have a 120-degree field of view, providing the widest coverage available by any product.



705 HT Sensor

The 705 High Temperature Sensor is a hazardous area certified sensor for the detection of combustible gases.

Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.
 © 2005 Honeywell Analytics

H_Sensepoint High Temp Sensor_DS0303_V1
 09/05
 © 2005 Honeywell Analytics

Honeywell