

Product Data Sheet

Key Features & Benefits:

- Amperometric 3 electrode sensor cell
- Fast response
- High reliability
- Good long term stability

Technical Specifications

MEASUREMENT

Operating Principle	3-electrode electrochemical
Measurement Range	0-50 mg/m ³
Filter	H ₂ S
Sensitivity	140 ± 50 nA/mg/m ³
Response Time (T₉₀)	< 30 s <small>calculated from 2 min exposure time (at 33 Ohm)</small>
Baseline Offset (clean air)	< ± 200 nA
Linearity	< 5% of full scale

ELECTRICAL

Recommended Load Resistor	33 Ω
Bias Voltage	+ 150 mV

MECHANICAL

Housing Material	ABS
Weight	4.2 g (Classic) 6.2 g (4 Series) 16.8 g (7 Series)
Recommended Orientation	sensor front pointing downwards or sideways

ENVIRONMENTAL

Typical Applications	Monitoring of odorants in natural gas applications
Operating Temperature Range	-10°C to +40°C
Operating Pressure Range	Atmospheric ± 10%
Operating Humidity Range	15% to 90% r.h. non-condensing

INTRINSIC SAFETY DATA

Maximum at 50 mg/m³	9.5 μA
Maximum o/c Voltage	< 500 mV
Maximum s/c Current	50 μA

LIFETIME

Long Term Output Drift	< 10% per 6 months
Expected Operating Life	> 18 months in air
Storage Life	8 weeks in sealed container
Standard Warranty	12 months from date of despatch

Available in:

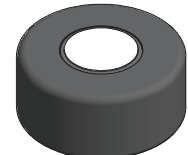
Classic



4 Series



7 Series



Part Numbers

THT	Part Number
Classic	2345-034-11069
4-Series	2345-034-14049
7-Series	2345-034-17079

Orders should be placed through Sensoric Gas Sensors in Bonn.

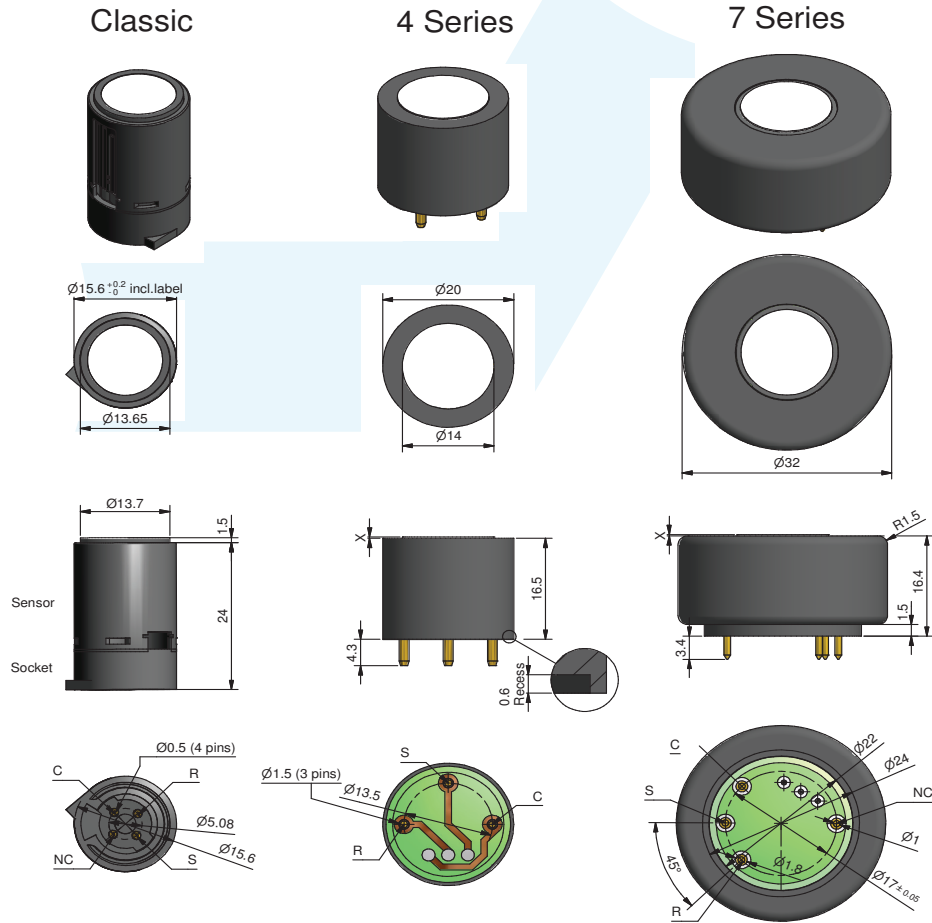
IMPORTANT NOTE:

Connection should be made via PCB sockets only. Soldering to pins will render your warranty void.

All performance data is based on conditions at 20°C, 50% r.h. and ambient pressure using Sensoric recommended circuitry. For information on sensor performance under other conditions contact Sensoric.

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Product Dimensions



All dimensions in mm

S Sensing
C Counter
R Reference
NC not connected

Plugs and customized adaptations available on request

Please contact sale_europe@citytech.com for detailed information

Important Note: Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void

This drawing may be subject to corrections or changes without prior notice

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Poisoning

Sensoric cells are designed for operation in a wide range of environments and harsh conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instruments, and operation.

When using sensors with printed circuit boards (PCBs), degreasing agents should be used before the sensor is fitted. Do not glue directly on or near the Sensoric cells as the solvent may cause crazing of the plastic.

SAFETY NOTE

This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement Sensoric Gas Sensors - a Division of Life Safety Germany GmbH reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a programme of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of Sensoric Gas Sensors - a Division of Life Safety Germany GmbH, we cannot give any warranty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application.

Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.