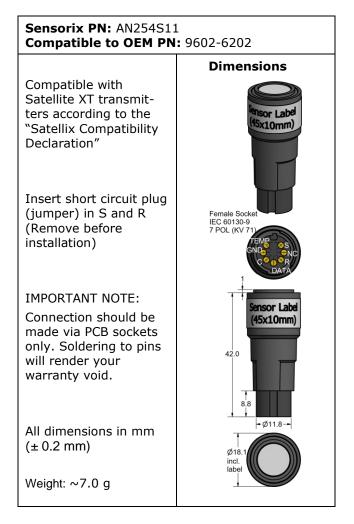


3-electrode sensor with EPROM for industrial safety applications including semiconductor Long lifetime | Highly selective | Fast response | Very stable baseline

Performance Characteristics / PSDS		
Measurement Range	0 – 1 ppm	
Maximum Range	10 ppm	
Sensitivity	1700 ± 500 nA/ppm	
Response Time (T <sub>90</sub> )	≤ 30 s at 2 min gas exposure	
Baseline (in clean air)	< ± 20 nA	
Baseline (in clean air) (at midpoint sensitivity)	< ± 0.02 ppm	
Lower Detectable Limit (LDL)	0.05 ppm	
Alarm 1	0.1 ppm	
Linearity	< 10% of full scale	
Repeatability	< 2%	
Product Safety Datasheet (PSDS)	Organic electrolyte	

<b>Operating Conditions</b>	
Temperature Range	-20°C to +40°C
Humidity Range	15% to 90% r.h. non-condensing
Pressure Range	800 – 1200 hPa
Bias Voltage	no
Sensor warm-up time (of sensors with short circuit plug)	5 s
Recommended Orientation	sensor front pointing downwards or sidewards



Lifetime	
Long Term Output Drift	< 10% per 6 months
Expected Operating Life	> 18 months in air
Recommended Storage conditions	5 – 20°C in sealed container

Performance and lifetime data are based on conditions at 20°C, 40 ... 60 % r.h. and ambient pressure.

# SAFETY NOTE

This sensor is designed to be used in safety critical applications. The sensor is compatible with the selftest functionality of the Satellite XT Gas Detector Transmitter. In addition to this electrical diagnostic, Sensorix recommends that the function of the sensor is confirmed by exposure to a suitable test gas (bump check) regularly according to national and local regulations. Failure to carry out such tests may jeopardize the safety of people and property.

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# B2H6 1 LT Satellix Electrochemical Gas Sensor for Diborane

Reading after 5 min
0 ppm
1.1 ppm
0 ppm
0 ppm
0 ppm
0 ppm
0 ppm
1 ppm
0 ppm *
0 ppm
0.1 ppm
0 ppm
1.5 ppm
0.2 ppm
None

\* Hydrogen Chloride can cause a transient signal above LDL for <1 min

Signals below LDL as well as negative readings will be displayed as zero.

#### IMPORTANT NOTE:

Interference factors may differ from sensor to sensor, with changing ambient conditions and with lifetime. It is not advisable to calibrate with interference gases. This table does not claim to be complete. The sensor may also be sensitive to other gases.



### **Temperature performance**

Temperature dependence is compensated with microprocessor.

## Poisoning

Sensorix 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 vapors 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.

#### Recycling

At the end of the product's life, do not dispose of any electronic sensor, component, or instrument in the domestic waste, but contact the vendor or Sensorix for disposal instructions. Sensorix will take back sensors for professional recycling.

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 Sensorix 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 program 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 Sensorix 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.

Characteristics on this data sheet outline the performance of newly supplied sensors.

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