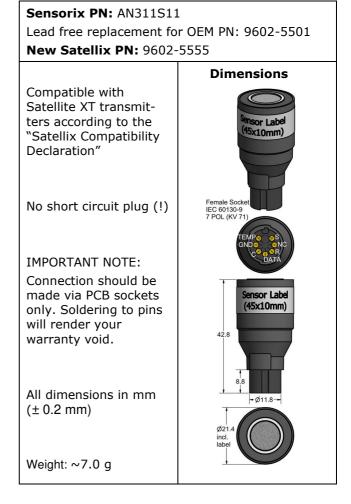


3-electrode sensor with EPROM for industrial safety applications

Lead free | Long life | High stability

Performance Characteristics / PSDS	
Measurement Range	0 - 25%
Maximum Range	30%
Sensitivity	4,75 ± 1,44 µA/%
Response Time (T ₉₀)	≤ 10 s at 2 min gas exposure
Baseline (in clean air)	< ± 2,38 µA
Baseline (in clean air) (at midpoint sensitivity)	< ± 0.5%
Lower Detectable Limit (LDL)	0.0%
Alarm 1	18%
Product Safety Datasheet (PSDS)	Acid Electrolytes

Operating Conditions	
Temperature Range	-20°C to +40°C
Humidity Range	5% to 95% r.h. non-condensing
Pressure Range	800 – 1200 hPa
Bias Voltage	-600 mV
Sensor warm-up time	15 min*
Recommended Orientation	sensor front pointing downwards or sidewards



Lifetime	
Long Term Output Drift	< 2% per year
Expected Operating Life	> 36 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.

*If no bias is applied to the sensor, it will be saturated with oxygen, which will be consumed when the bias is applied again. This can lead to significantly increased oxygen readings initially. If stored for a long time without bias, extended warm-up times of up to 1 hour may occur. Please do not adjust the sensor during warm up.

SAFETY NOTE

This sensor is designed to be used in safety critical applications. 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.

Sensorix GmbH | www.sensorix.com | sales@sensorix.com | +49 228 763741-0



O2 LF Satellix Electrochemical Gas Sensor for Oxygen



Cross Sensitivity

Normally, other gases do not influence the oxygen reading (% range), as their concentration in workplace environment is too low (ppm range).

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

IMPORTANT NOTE:

- If the sensor is not biased in the meantime, the zero current shifts and the sensor must warm up again for up to 15 minutes.
- To ensure that the sensor functions correctly, the sensor must not be sealed airtight on the backend.

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.

Sensorix GmbH | www.sensorix.com | sales@sensorix.com | +49 228 763741-0

