Br2 5 Satellix

Electrochemical Gas Sensor for Bromine



3-electrode sensor with EPROM for industrial safety applications

Class leading stability | Highly selective | Fast response | Very stable baseline

Performance Characteristics / PSDS		
Measurement Range	0 - 5 ppm	
Maximum Range	10 ppm	
Sensitivity	450 ± 200 nA/ppm	
Response Time (T ₉₀)	≤ 60 s at 2 min gas exposure	
Baseline (in clean air)	< ± 20 nA	
Baseline (in clean air) (at midpoint sensitivity)	< ± 0.04 ppm	
Lower Detectable Limit (LDL)	0.05 ppm	
Alarm 1	0.1 ppm	
Linearity	< 5% of full scale	
Repeatability	< 2%	
Product Safety Datasheet (PSDS)	aqueous salt electrolyte	

Operating Conditions	
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

Sensorix PN: AN072S11 Compatible to OEM PN: 9602-6800		
	Dimensions	
Compatible with Satellite XT transmit- ters according to the "Satellix Compatibility Declaration"	Sensor Label (45x10mm)	
Insert short circuit plug (jumper) in S and R (Remove before installation)	Female Socket IEC 60130-9 7 POL (KV 71) IEMP 08 SND 9NC CO R	
IMPORTANT NOTE:	Sensor Label	
Connection should be made via PCB sockets only. Soldering to pins will render your warranty void.	(45x10mm)	
	8.8 - Ø11.8	
All dimensions in mm (± 0.2 mm)	Ø18.1	
Weight: ~7.0 g	TELOGIA .	

Lifetime	
Long Term Output Drift	< 10% per 6 months
Expected Operating Life	> 24 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 self-test 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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Constant Constitution C. Till	
Cross Sensitivity & Filter	T
Gas concentration	Reading after 5 min
Ammonia 20 ppm	0 ppm
Arsine 1 ppm	0 ppm
Carbon Dioxide 5000 ppm	0 ppm
Carbon Monoxide 100 ppm	0 ppm
Chlorine 1 ppm	1 ppm
Chlorine Dioxide 1 ppm	0.5 ppm
Ethanol 1000 ppm	0 ppm
Fluorine 1 ppm	0.5 ppm
Hydrocarbons (saturated) 1%	0 ppm
Hydrogen 1000 ppm	0 ppm
Hydrogen Chloride 10 ppm	0 ppm
Hydrogen Cyanide 10 ppm	0 ppm
Hydrogen Fluoride 5 ppm	0 ppm
Hydrogen Sulfide 20 ppm	0 ppm
Isopropanol 600 ppm	0 ppm
Nitrogen Dioxide 2 ppm	0.5 ppm
Ozone 0.25 ppm	0.2 ppm
Phosphine 1 ppm	0 ppm
Sulphur Dioxide 2 ppm	0 ppm
Chemical Filter	None

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 vendorror Sensorix for disposal instructions. Sensorix will take back sensors for professional recycling.

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

