



Product Data Sheet

ELECTROCHEMICAL 4NO-200U SENSOR (PN: 058-S100-000)

Description

This Nitric Oxide (NO) sensor is designed to operate with no bias voltage required. Comparing to the other NO sensors available on the market, this innovation eliminates the need for sensor warm-up time, streamlining gas monitor design and ensuring a more stable baseline with improved resolutions.

Performance Characteristics

0 ~ 200 ppm
200 ppm
$0.3 \pm 0.1 \mu\text{A/ppm}$
≤ 30 s
< ±0.2 μA
< 0.5 ppm
0.01 ppm
Linear up to 200 ppm
0 mV

Environmental

Temperature Range:	-20°C ~ 50°C
Pressure Range:	1 ± 0.1 atm
Humidity Range:	15% ~ 90%RH non-condensing

Life Time

LongTime Output Drift:	< 2% signal/month
Recommended Storage Temp:	10°C ~ 30°C
Expected Operating Life:	2 years in clean air
Storage Life:	6 months in original packaging
Warranty:	12 months

Intrinsic Safety Data

Max. Current at 200ppm NO:	< 0.2 mA
Max. O/C Voltage:	1.3 V
Max. S/C Current:	< 1.0 A

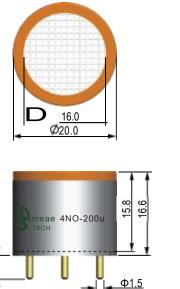
Physical Characteristics

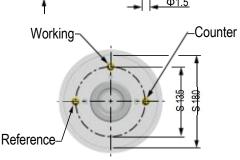
Housing Material:	ABS
Weight (Nominal):	5 g
Orientation:	None

Installation

Output signals from the sensor pins are different. Inappropriate use of the pins in product design will affect the sensor functionality. Exposure to high concentrations of solvent vapors should be avoided under any condition. Mechanical overstress may cause deformation or cracks of the plastic enclosure of the sensor. If the sensor is used in extreme environmental conditions, please contact us for more details.

Product Dimensions





All dimensions in mm
All tolerances ±0.20mm unless otherwise stated

Note

The performance data in this document are conducted by using the recommended test circuitry and test environment at 20°C, 50%RH and 1 atm. Sensor performance varies under different environmental conditions. Please contact us if you need more details.

Website: www.eursense.com E - mail: sales@eursense.com

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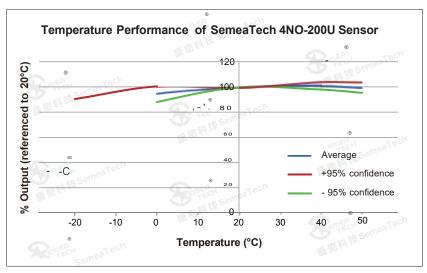
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· Cross-Sensitivity Data

Concentration (ppm)	Output Signal (ppm NO equivalent)
25	16.0
100	0.0
5	< 0.2
5	< 0.3
100	0.0
1,000	< 0.3
	25 100 5 5 100

Note: The cross sensitivities include but not limited to the above gases. It may also respond to other gases. The data in the table above may vary from different batches of sensors and the changes of test environment. Calibration using the gases that have the cross sensitivities to this sensor is not recommended.

Temperature Data



Safety Note

This sensor is designed to be used in certain instruments for life critical applications. To ensure the sensor functions per its specifications inside the instrument, it is required to read the instrument user's guide carefully and comply with the calibration procedures by using certified target calibration gas before each use. Failure to do so may cause serious injury and fatality. Please do not open the sensor plastic enclosure because the electrolyte and other chemicals stored inside are harmful.

It is highly recommended for customers to validate the sensor performance using this document as a reference for their product designs or applications.

This product data sheet is used for reference only.

SemeaTech and EURsense are committed to providing its customers the most accurate data based on its best knowledge. SemeaTech and EURsense does not provide a product warranty for failures of using its products in accordance with product specifications that are described in the datasheet, or other misuses, abuse, negligence to the product.

Website: www.eursense.com
E - mail: sales@eursense.com
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