

### • Description

This Nitric Oxide (NO) sensor has a fast response time T90 that is less than 15 seconds. It can be used as a pin-to-pin replacement for the standard 7-series electrochemical Nitric Oxide sensors made by other manufacturers.

### • Performance Characteristics

|                                |                      |
|--------------------------------|----------------------|
| Nominal Range:                 | 0 ~ 100 ppm          |
| Maximum Overload:              | 1,500 ppm            |
| Sensitivity (20°C):            | 0.55 ± 0.11 µA/ppm   |
| Response Time (T90):           | ≤ 15 s               |
| Zero Signal (20°C):            | < ±1.4 µA            |
| Baseline Shift (-40°C ~ 55°C): | < 10 ppm             |
| Resolution:                    | 0.03 ppm             |
| Linearity:                     | Linear up to 100 ppm |
| Bias Voltage:                  | +300 mV              |

### • Environmental

|                    |                            |
|--------------------|----------------------------|
| Temperature Range: | -40°C ~ 55°C               |
| Pressure Range:    | 1 ± 0.1 atm                |
| Humidity Range:    | 15% ~ 90%RH non-condensing |

### • Life Time

|                           |                                |
|---------------------------|--------------------------------|
| Long Time 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 1,500ppm NO: | < 1 mA  |
| Max. O/C Voltage:            | 1.3 V   |
| Max. S/C Current:            | < 1.0 A |

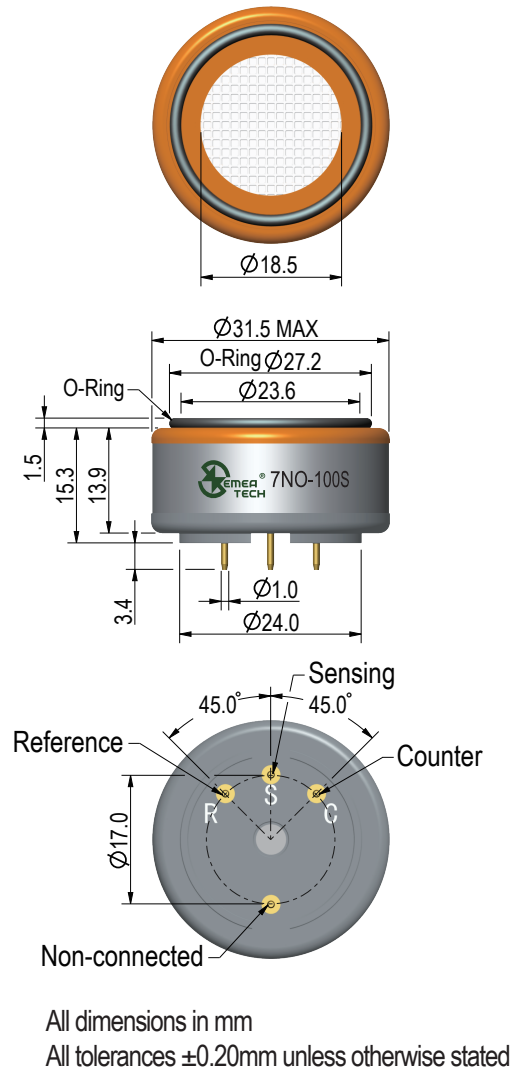
### • Physical Characteristics

|                   |     |
|-------------------|-----|
| Housing Material: | ABS |
| Weight (Nominal): | 8 g |
| RoHS Compliance   |     |

### • 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



### • Note

The performance data in this document are conducted by using SemeaTech 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.

