

## SPECIFICATION SHEET FOR HIGH SENSITIVE NO SENSOR TYPE NO/C-25

### PERFORMANCE CHARACTERISTICS

|   |                                     |
|---|-------------------------------------|
| Nominal Range                           | 0 –25 ppm                           |
| Maximum Overload                        | ND                                  |
| Expected Operation Life                 | 3 years in air                      |
| Output Signal                           | 2100 ± 420 nA/ppm                   |
| Resolution                              | 0,15 ppm                            |
| Temperature Range                       | - 20 °C to 45 °C                    |
| Pressure Range                          | Atmospheric ± 10%                   |
| Pressure Coefficient                    | No data                             |
| T <sub>90</sub> Response Time           | < 25 sec                            |
| Relative Humidity Range                 | 15 % to 90 % R.H.<br>non-condensing |
| Typical Baseline Range (pure air, 20°C) | + 0,25 to + 1 ppm                   |
| Maximum Zero Shift (+20°C to +40°C)     | 3 ppm                               |
| Long Term Output Drift                  | < 2 % signal loss/month             |
| Recommended Load Resistor               | 10 Ohm                              |
| Bias Voltage                            | + 300 mV                            |
| Repeatability                           | < 2 % of signal                     |
| Output Linearity                        | Linear                              |

### PHYSICAL CHARACTERISTICS

|                                 |                                 |
|---------------------------------|---------------------------------|
| Weight                          | ~ 13 g                          |
| Position Sensitivity            | None                            |
| Storage Life                    | Six months in container         |
| Recommended Storage Temperature | 5 °C – 20 °C                    |
| Warranty Period                 | 12 months from date of dispatch |

### CROSS-SENSITIVITY DATA

| Interfering Gas  | Concentration | Reading |
|------------------|---------------|---------|
| CO               | 300 ppm       | 0 ppm   |
| H <sub>2</sub> S | 15 ppm        | < 5 ppm |
| NO <sub>2</sub>  | 20 ppm        | < 5 ppm |
| H <sub>2</sub>   | 300 ppm       | 0 ppm   |
| SO <sub>2</sub>  | 5 ppm         | 0 ppm   |

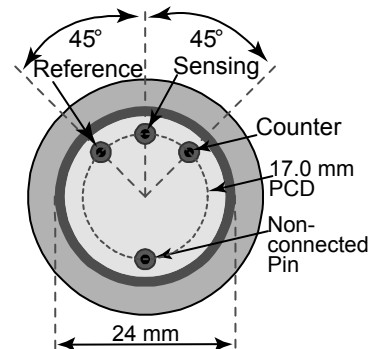
Performance data conditions:  
20 °C, 50% RH and 1013 mbar

### APPLICATIONS

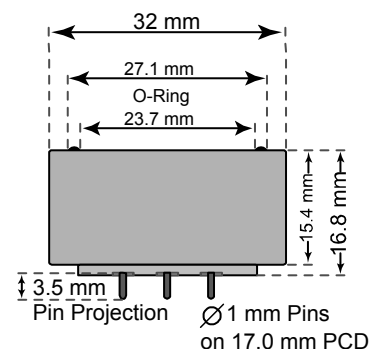
Air Quality Monitoring  
Safety and Environmental Control

### Compact-Size Outline Dimensions

#### BOTTOM VIEW



#### SIDE VIEW

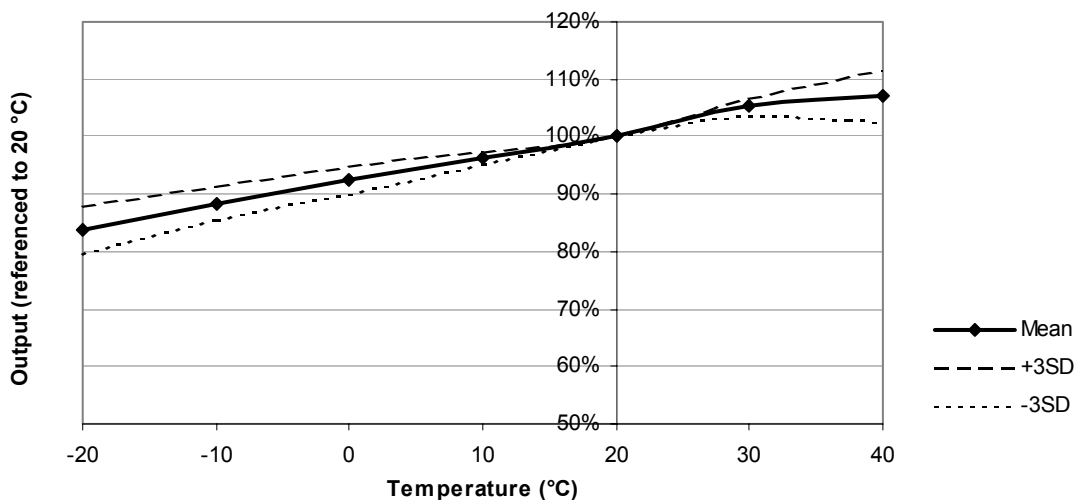


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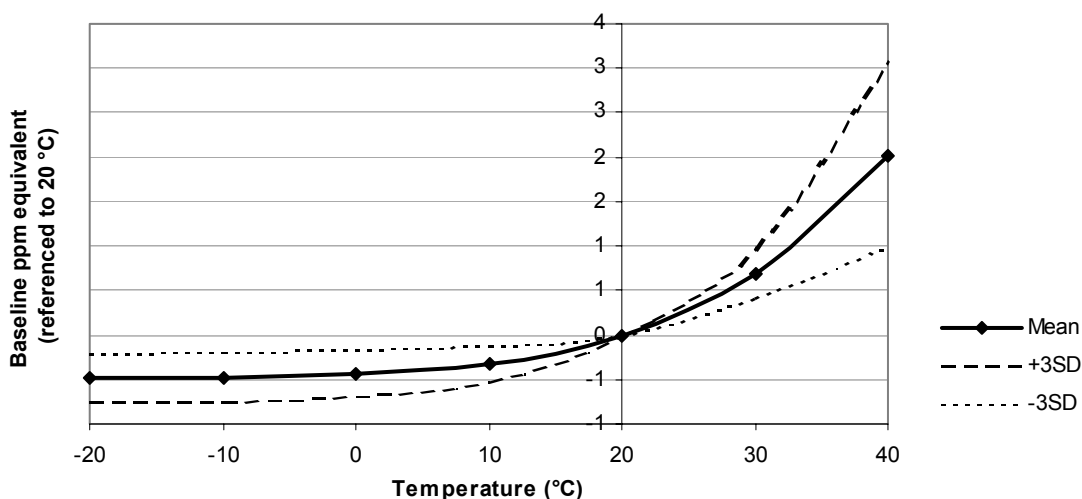
### TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for a batch of sensors, along with confidence intervals corresponding to  $\pm 3$  times the standard deviation. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in baseline is shown in ppm referenced to 20 °C.

Sensitivity Temperature Dependence



Baseline Temperature Dependence



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