

## SPECIFICATION SHEET FOR CO SENSOR TYPE CO/CF-1000

### PERFORMANCE CHARACTERISTICS

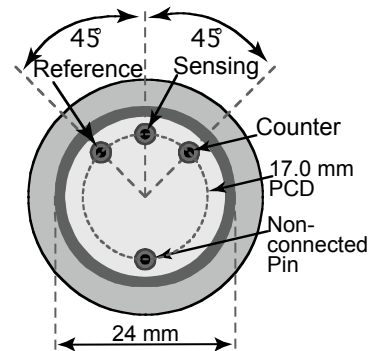
|   |                                     |
|---|-------------------------------------|
| Nominal Range                           | 0 – 1'000 ppm                       |
| Maximum Overload                        | 2'000 ppm                           |
| Inboard Filter                          | To remove acid gases                |
| Expected Operation Life                 | 3 years in air                      |
| Output Signal                           | 100 ± 20 nA/ppm                     |
| Resolution                              | 0,5 ppm                             |
| Temperature Range                       | - 20 °C to 45 °C                    |
| Pressure Range                          | Atmospheric ± 10%                   |
| Pressure Coefficient                    | No data                             |
| T <sub>90</sub> Response Time           | < 40 sec                            |
| Relative Humidity Range                 | 15 % to 90 % R.H.<br>non-condensing |
| Typical Baseline Range (pure air, 20°C) | -1 to +3 ppm                        |
| Maximum Zero Shift (+20°C to +40°C)     | 10 ppm                              |
| Expected Long Term Output Drift         | < 2 % signal loss/month             |
| Recommended Load Resistor               | 10 Ohm                              |
| Bias Voltage                            | Not recommended                     |
| Repeatability                           | < 2 % of signal                     |
| Output Linearity                        | Linear                              |

### PHYSICAL CHARACTERISTICS

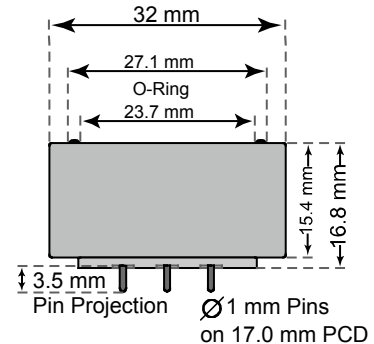
|                                 |                                 |
|---------------------------------|---------------------------------|
| Weight                          | ~ 13 g                          |
| Position Sensitivity            | None                            |
| Storage Life      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

### Compact-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



### CROSS-SENSITIVITY DATA

| Interfering Gas  | Cross-Sensitivity (%) |
|------------------|-----------------------|
| H <sub>2</sub> S | 0                     |
| SO <sub>2</sub>  | 0                     |
| NO               | 0                     |
| NO <sub>2</sub>  | 0                     |
| H <sub>2</sub>   | < 60                  |

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

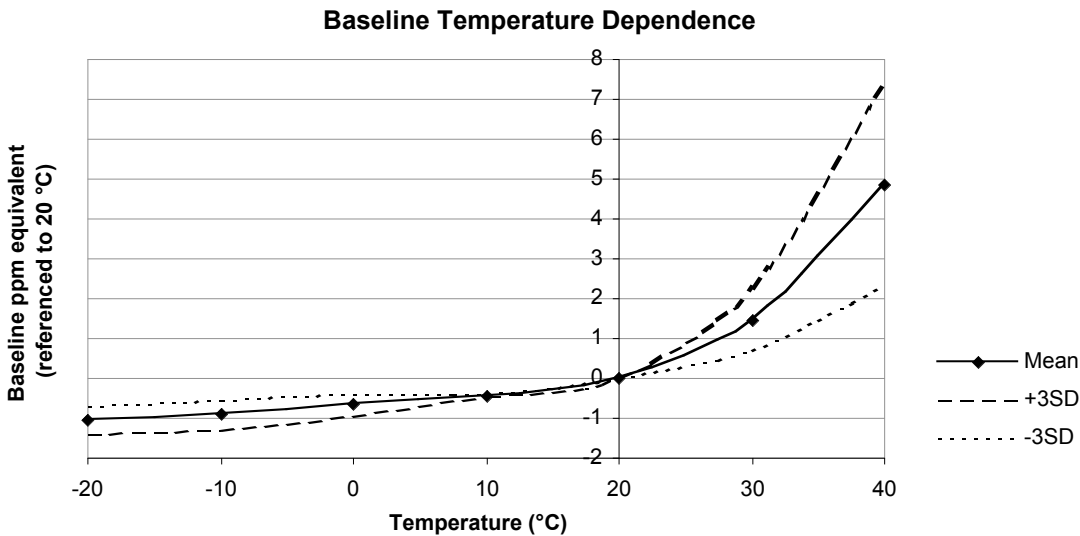
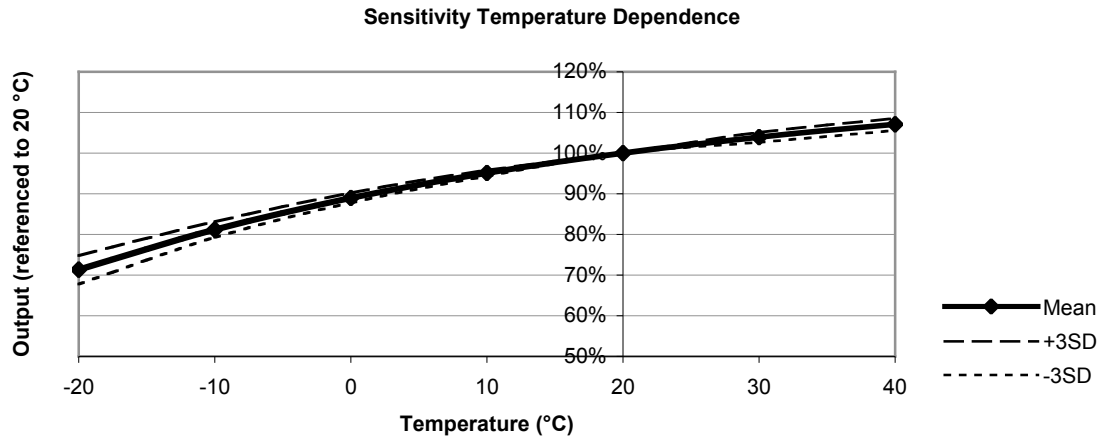
### APPLICATIONS

Continuous Air Quality Monitoring  
Safety and Environmental Control

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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.



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