

## SPECIFICATION SHEET FOR SO<sub>2</sub> SENSOR COMPACT

### SO2-7/20

Nominal Range 0 – 20 ppm  
 Maximum Overload 100 ppm  
 Expected Operation Life 2 years in air  
 Output Signal 900 +/- 200 nA/ppm  
 Resolution <0.05 ppm  
 Temperature Range - 40 °C to + 50 °C  
 Pressure Range Atmospheric +/-10 %  
 t<sub>90</sub> Response Time < 15 sec  
 Relative Humidity Range 15 % to 90 % R.H. non-condensing  
 Typical Baseline Range (pure air, 20°C) – 0.1 ppm to +0.2 ppm  
 Maximum Zero Shift (+20°C to +40 °C) 0.3 ppm equivalent  
 Expected Long Term Output Drift < 2 % signal loss/month  
 Recommended Load Resistor 10 Ohm  
 Bias Voltage Not required  
 Repeatability < 2 % of signal  
 Output Linearity Linear

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

### PERFORMANCE CHARACTERISTICS CROSS-SENSITIVITY DATA

Interfering Gas Concentration Reading  
 CO 100 ppm < 1 ppm  
 H<sub>2</sub>S 10 ppm < 6 ppm  
 NO<sub>2</sub> 50 ppm < -60 ppm

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

### APPLICATIONS

Safety and Environmental Control  
 For Portable Gas Detectors

