

ELECTROCHEMICAL GAS SENSORS

SPECIFICATION SHEET FOR SO₂ SENSOR TYPE SO2/MF-100

PERFORMANCE CHARACTERISTICS

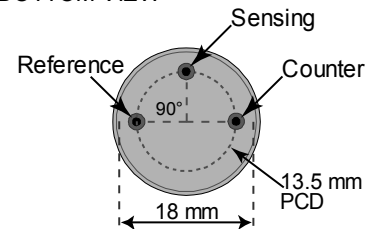
Nominal Range	0 – 100 ppm
Maximum Overload	500 ppm
Inboard Filter	To remove H ₂ S and HCl
Expected Operation Life	2 years in air
Output Signal	370 ± 70 nA/ppm
Resolution	0.2 ppm
Temperature Range	- 20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T ₉₀ Response Time	< 20 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	0 ppm ± 0.4 ppm
Maximum Zero Shift	N.D.
Long Term Output Drift	< 2% signal loss/month
Recommended Load Resistor	10 Ohm
Bias Voltage	Not required
Repeatability	< 2 % of signal
Output Linearity	Linear

PHYSICAL CHARACTERISTICS

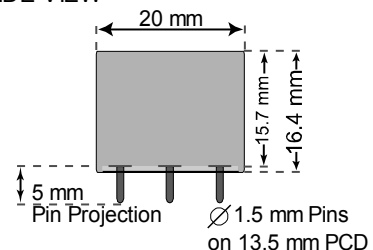
Weight	~ 5,6 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	1000 ppm	< 10 ppm
H ₂ S	200 ppm	10 ppm
NO	1000 ppm	0 ppm
NO ₂	1000 ppm	~ -1250 ppm
H ₂	10000 ppm	< 10 ppm
Ethylene	1000 ppm	0 ppm

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

APPLICATIONS

Safety and Environmental Control
For Portable Gas Detectors

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Page 1 of 1