MEMBRAPOR SPECIFICATION SHEET

SO2/MF-1000

Sulfur Dioxide Gas Sensor in Mini Housing

MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 1'000 ppm
Maximum Overload	5'000 ppm
Inboard Filter	To remove H2S and HCl
Output Signal	50 ± 15 nA/ppm
Resolution (Electronics dependent)	< 2 ppm
T90 Response Time	< 25 sec
Typical Baseline Range (pure air, 20°C)	-3 ppm to 3 ppm
Maximum Zero Shift (+20°C to +40°C)	N.D.
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	–

ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

ENVIRONMENTAL

Relative Humidity Range	15 % to 90 % R.H. non-condensing
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	none

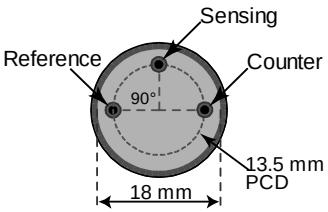
LIFETIME

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	N.D.
Filter Life	N.D.
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

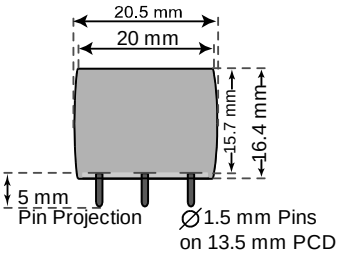
Performance data conditions: 20 °C, 50% RH, 1013 mbar

Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



± 0.10 mm

MECHANICAL

Weight	5.5 g
Position Sensitivity	None

APPLICATIONS

Stack/ Flue Gas Monitoring
Emission Monitoring

CROSS-SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Conc. **ppm**	Reading **ppm**
CO	1000	50 ± 20
H_2S	200	10
NO	1000	0
NO_2	1000	-1250
H_2	10000	10
C_2H_4	1000	0

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