

MEMBRAPOR SPECIFICATION SHEET

SO₂/C-1



Sulfur Dioxide Gas Sensor in Compact Housing

MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 1 ppm
Maximum Overload	10 ppm
Inboard Filter	–
Output Signal	4000 ± 1500 nA/ppm
Resolution (Electronics dependent)	< 0.01 ppm
T90 Response Time	< 20 sec
Typical Baseline Range (pure air, 20°C)	< 0.05 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 required
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	–
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

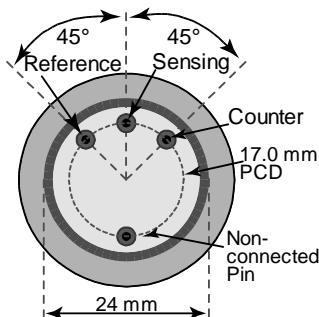
Performance data conditions: 20 °C, 50% RH, 1013 mbar

IMPORTANT NOTE

1) The sensor has no protection against condensation

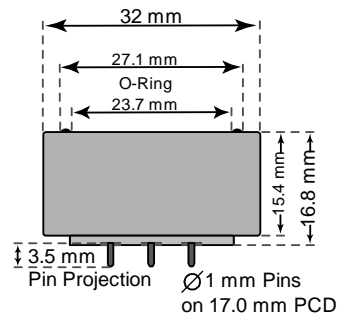
Compact-Size Outline Dimensions

BOTTOM VIEW



± 0.10 mm

SIDE VIEW



MECHANICAL

Weight	13 g
Position Sensitivity	None

APPLICATIONS

Continuous Air Quality Monitoring
Safety and Environmental Control

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
NO ₂	5	-4
O ₃	1	-0.6
CO	100	< 1
H ₂	100	0
C ₂ H ₄	100	< 0.2
Cl ₂	20	-10 ³
NO	50	0 ²
CH ₂ O		³
HCl	20	1 ³
NH ₃	80	< -0.2 ³
H ₂ S	20	30

2) NO readily forms NO₂ in the presence of O₂

3) CH₂O, HCl, NH₃ and Cl₂ can cause drifts

REV.: 04/2018

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