

# MEMBRAPOR SPECIFICATION SHEET

## H<sub>2</sub>S/CG-5000-4E

Hydrogen Sulfide Gas Sensor in Compact Housing



### MEASUREMENT

Operation Principle	4-Electrode Electrochemical
Nominal Range	0 – 5'000 ppm
Maximum Overload	10'000 ppm
Inboard Filter	none
Output Signal	25 ± 6 nA/ppm
Resolution (Electronics dependent)	< 5 ppm
T90 Response Time	< 35 sec
Typical Baseline Range (pure air, 20°C)	-40 ppm to 40 ppm
Maximum Zero Shift (+20°C to +40°C)	12 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	0 to 2 ppm

### ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias Voltage	0 mV
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	< 2 % per month
Filter Life	–
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

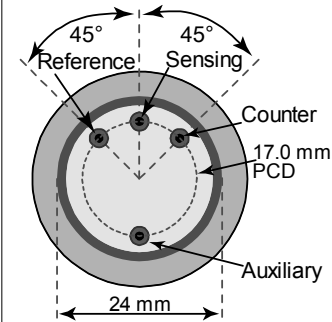
### IMPORTANT NOTE

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

### SPECIAL FEATURE provisional

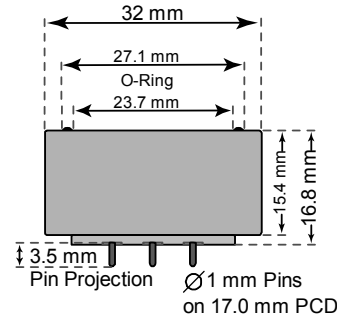
#### Compact-Size Outline Dimensions

##### BOTTOM VIEW



± 0.10 mm

##### SIDE VIEW



### MECHANICAL

Weight	13 g
Position Sensitivity	None

### APPLICATIONS

- Discontinuous Measurement
- Biogas Analyzer
- Safety and Environmental Control

### CROSS-SENSITIVITY DATA

The table below does not claim to be complete.

Interfering Gas	Conc. ppm	Reading ppm
CO	100	1
SO <sub>2</sub>	50	8
NO	35	2
NO <sub>2</sub>	5	-0.1
HCl	20	0
H <sub>2</sub>	1000	1 <sup>4</sup>

4) After compensation

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