# SPECIFICATION SHEET FOR H<sub>2</sub> SENSOR TYPE H2/M-40000

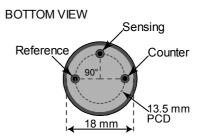
# PERFORMANCE CHARACTERISTICS

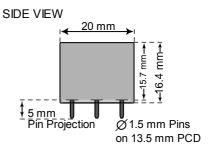
Maximum Overload $0 - 40'000 \text{ ppm}$ Expected Operation Life2 years in airOutput Signal $5 \pm 3 \text{ nA/ppm}$ Resolution10 ppmTemperature Range $0 \degree C \text{ to } + 50 \degree C$ Pressure RangeAtmospheric $\pm 10 \%$ Pressure CoefficientNo data $t_{90}$ Response Time< 60 secRelative Humidity Range15 % to 90 % R.H. non-condensingTypical Baseline Range (pure air, 20°C)- 200 ppm to 100 ppmMaximum Zero Shift (+20°C to +40 °C)400 ppm equivalentDriftloss/monthRecommended Load Resistor10 OhmBias VoltageNot required		·	
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Output Signal $5 \pm 3$ nA/ppmResolution10 ppmTemperature Range0 °C to + 50 °CPressure RangeAtmospheric ± 10 %Pressure CoefficientNo data $t_{90}$ Response Time< 60 sec	Maximum Overload	0 – 40'000 ppm	
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$\begin{array}{llllllllllllllllllllllllllllllllllll$	Temperature Range	0 °C to + 50 °C	
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Driftloss/monthRecommended Load Resistor10 OhmBias VoltageNot required	to +40 °C)		
Recommended Load Resistor10 OhmBias VoltageNot required	Expected Long Term Output	< 2 % signal	
Bias Voltage Not required	Drift	loss/month	
	Recommended Load Resistor	10 Ohm	
$P_{opostobility} = \frac{1}{2} \sum_{i=1}^{N} \frac{1}{$	Bias Voltage	Not required	
	Repeatability	< 5 % of signal	
Output Linear Linear	Output Linearity	Linear	

## PHYSICAL CHARACTERISTICS

~ 5.4 g	
None	
Six months in	
container	
5 °C – 20 °C	
12 months from date of dispatch	

#### **Miniature-Size Outline Dimensions**





## **CROSS-SENSITIVITY DATA**

Interfering Gas	Concentration	Reading
CO	2000 ppm	< 2000 ppm

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

## **APPLICATIONS**

Safety and Environmental Control For Portable Gas Detectors

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