echnica

H2-B1 Hydrogen Sensor

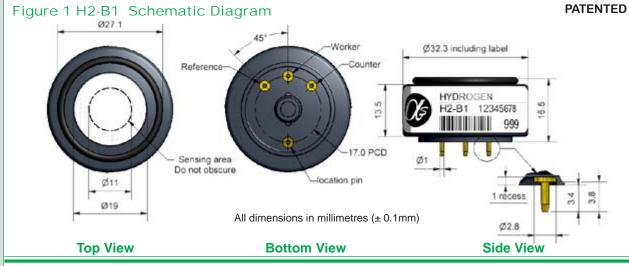


15 to 90

10 to 47

< 13

6



PERFORMANCE	Sensitivity Response time Zero current Resolution Range Linearity Overgas limit	nA/ppm in 1000ppm H ₂ t ₉₀ (s) from zero to 1000ppm H ₂ ppm equivalent in zero air RMS noise (ppm equivalent) ppm H ₂ limit of performance warranty ppm error at full scale, linear at zero and 3500ppm H ₂ maximum ppm for stable response to gas pulse	4 to 10 nA/ppm <70 < ± 30 < 0.5 5000 -200 to -500 20,000
LIFETIME	Zero drift Sensitivity drift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (24 month warranted)	<10 ND > 24
ENVIRONMENTAL		C % (output @ -20°C/output @ 20°C) @ 10000 ppm H % (output @ 50°C/output @ 20°C) @ 10000 ppm H ₂ ppm equivalent change from 20°C ppm equivalent change from 20°C	
CROSS SENSITIVITY	Cl ₂ sensitivity 9 NO sensitivity 9 SO ₂ sensitivity 9 CO sensitivity 9 H ₂ S sensitivity 9 C ₂ H ₄ sensitivity 9 NH ₃ sensitivity 9	% measured gas @ 10ppm NO ₂ % measured gas @ 10ppm Cl ₂ % measured gas @ 50ppm NO % measured gas @ 20ppm SO ₂ % measured gas @ 1000ppm CO % measured gas @ 400ppm H ₂ S % measured gas @ 400ppm C ₂ H ₄ % measured gas @ 400ppm NH ₃ % measured gas @ 5% CO ₂	ND ND ND ND < 25 ND ND ND
KEY SPECIFICATIONS	Temperature range	e °C kPa	-30 to 50 80 to 120

NOTE: all sensors are tested at ambient environmental conditions, with 10 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

 Ω (recommended)

months @ 3 to 20°C (stored in sealed pot)

% rh

g

Humidity range

Storage period

Load resistor

Weight

Specification **Technical**

H2-B1 Performance Data



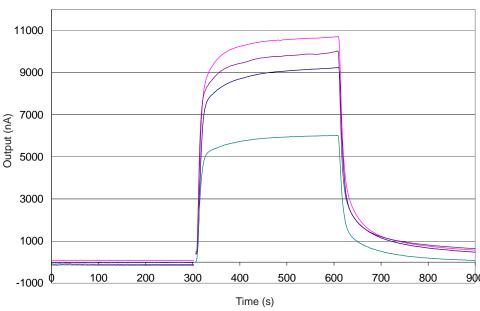


Figure 2 shows the typical response to 1000ppm H₂ at 20°C.

Figure 3 Linearity

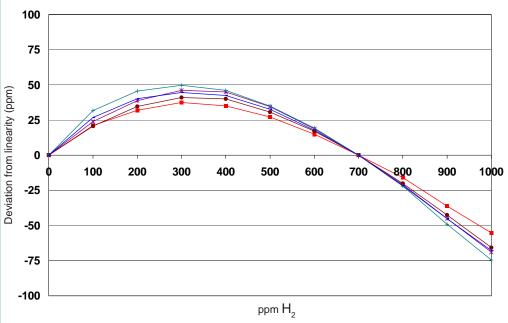


Figure 3 shows typical linearity for 0 to 1000ppm H₂, correct at 0 and 700ppm H₂.