

Specification

PERFORMANCE

BR2-B1 Bromine Sensor



Figure 1 BR2--B1 Schematic Diagram

Sensitivity

PATENTED

-600 to -950

-20 to 50

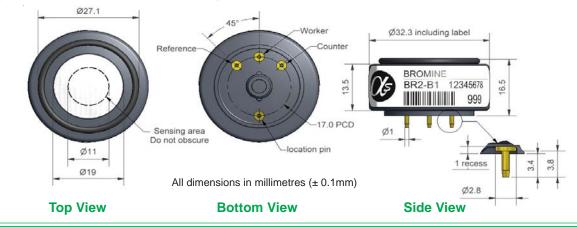
80 to 120

15 to 90

6

33

< 13



nA/ppm in 10ppm Br₂

LIFETIME	Response time Zero current Resolution Range Linearity Overgas limit	t_{90} (s) from zero to 10ppm Br_2 (33 Ω load resistor) ppm equivalent in zero air RMS noise (ppm equivalent) (33 Ω load resistor) ppm limit of performance warranty ppm error at full scale, linear at zero and 10ppm Br_2 maximum ppm for stable response to gas pulse	< 60 ± 0.1 < 0.02 10 <± 0.15 30
LIFETIME	Zero drift Sensitivitydrift Operating life	ppm equivalent change/year in lab air % change/year in lab air, monthly test months until 80% original signal (24 month warranted)	< 0.03 < 6 > 24
ENVIRONMENTA	Sensitivity Sensitivity Zero @ -20°C Zero @ 50°C Zero slope	@ -20°C% (output @ -20°C/output @ 20°C) @ 10ppm @ 50°C% (output @ 50°C/output @ 20°C) @ 10ppm ppm equivalent change from 20°C ppm equivalent change from 20°C equivalent ppm/K	75 to 95 98 to 110 ± 0.3 <± 0.2 -0.003
CROSS SENSITIVITY	H ₂ S sensitivity NO ₂ sensitivity NO sensitivity SO ₂ sensitivity CO sensitivity H ₂ sensitivity C ₂ H ₄ sensitivity NH ₃ sensitivity Cl ₂ sensitivity	% measured gas @ 20ppm H ₂ S % measured gas @ 10ppm NO ₂ % measured gas @ 50ppm NO % measured gas @ 20ppm SO ₂ % measured gas @ 400ppm CO % measured gas @ 400ppm H ₂ % measured gas @ 400ppm C ₂ H ₄ % measured gas @ 20ppm NH ₃ % measured gas @ 100ppm Cl ₂	-100 100 < 0.5 < -2 < 0.1 < 0.1 < 0.1 100

Note: Above 85% rh and 40°C a maximum continuous exposure period of 10 days is warranted. Where such exposure occurs the sensor will recover normal electrolyte volumes when allowed to rest at lower % rh and temperature levels for several days.

 Ω (for optimum performance)

% rh continuous (see note below)

-250mV bias recommended (not required) months @ 3 to 20°C (stored in sealed pot)

At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions.

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

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SPECIFICATIONS Pressure range

邮箱: sales@apollounion.com

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°C

kPa

Temperature range

Humidity range

Storage period

Load resistor

Weight

Bias voltage

邮编: 518031 传真: 0755-83680866



Specification

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BR2-B1 Performance Data

Figure 2 Zero Temperature Dependence

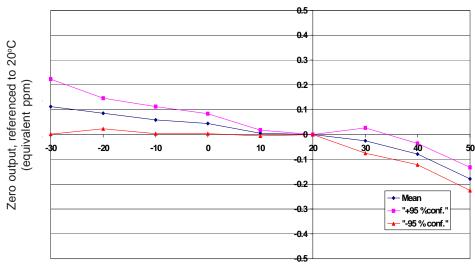


Figure 2 shows the variation in zero output caused by changes in temperature expressed as ppm gas equivalent.

This data is taken from a typical batch of sensors. The mean and ±95% confidence intervals are shown.

Temperature (°C)

For further information on the performance of this sensor, on other sensors in the range or any other subject, please contact Alphasense Ltd. For Application Notes visit "www.alphasense.com".

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