

SPECIFICATION SHEET FOR ALCOHOL SENSOR TYPE A1c/M-200

PERFORMANCE CHARACTERISTICS

Nominal Range	0 – 200 ppm
Maximum Overload	400 ppm
Expected Operation Life	2 years in air
Output Signal with Ethanol	1'000 ± 400 nA/ppm
Output Signal with Methanol	1'100 ± 400 nA/ppm
Resolution	0.2 ppm
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10 %
Pressure Coefficient	No data
t ₉₀ Response Time with Ethanol	< 25 sec
t ₉₀ Response Time with Methanol	< 200 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	0.5 to 2.5 ppm equivalent
Maximum Zero Shift (+20°C to +40 °C)	ND
Expected Long Term Output Drift	< 2 % signal loss/month
Recommended Load Resistor	10 Ohm
Bias Voltage	+ 300 mV
Repeatability	< 2 % of signal
Output Linearity	Linear

CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	100 ppm	<1 ppm
Interference from unsaturated hydrocarbons		

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

APPLICATIONS

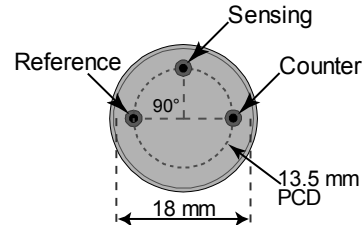
Safety and Environmental Control
Breath Alcohol Analysis

PHYSICAL CHARACTERISTICS

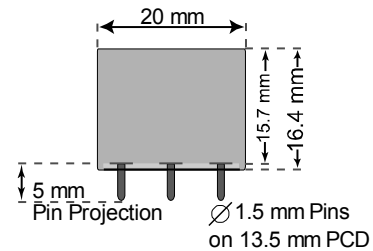
Weight	~ 5.4 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



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