MEMBRAPOR SPECIFICATION SHEET

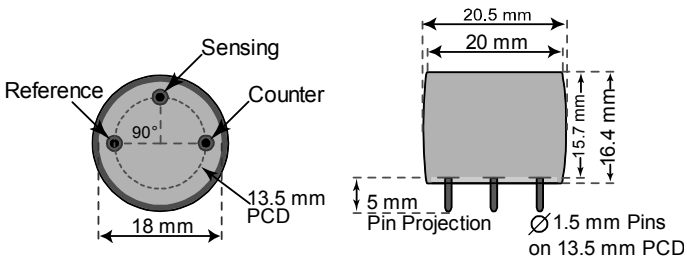
CH2O/M-10

Formaldehyde Gas Sensor in Mini Housing

MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 10 ppm
Maximum Overload	30 ppm
Inboard Filter	none
Output Signal	4600 ± 1200 nA/ppm
Resolution (Electronics dependent)	< 0.1 ppm
T60 Response Time	< 40 sec
Typical Baseline Range (pure air, 20°C)	-0.1 ppm to 0.1 ppm
Maximum Zero Shift (+20°C to +40°C)	0.25 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	–

Miniature-Size Outline Dimensions



± 0.10 mm

ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias Voltage	not recommended
Conformity to RoHS directive	RoHS Compliance

MECHANICAL

Weight	5.5 g
Position Sensitivity	None

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	Abrupt changes in humidity cause a short-term signal

APPLICATIONS

Continuous Air Quality Monitoring
Safety and Environmental Control
For Portable Devices

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

CROSS-SENSITIVITY DATA

The table below does not claim to be complete.

Interfering Gas	Cross-Sens. %
H_2	1 % - 3 %
CO	10 % - 18 %
Organic solvents	

IMPORTANT NOTE

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

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