

MEMBRAPOR SPECIFICATION SHEET

C2H4/C-10



Ethene, Ethylene Gas Sensor in Compact Housing

MEASUREMENT

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 – 10 ppm
Maximum Overload	100 ppm
Inboard Filter	–
Output Signal	400 ± 120 nA/ppm
Resolution (Electronics dependent)	< 0.1 ppm
T80 Response Time	< 60 sec
Typical Baseline Range (pure air, 20°C)	-0.3 ppm to 1 ppm
Maximum Zero Shift (+20°C to +40°C)	N.D.
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	–

ELECTRICAL

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

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	none

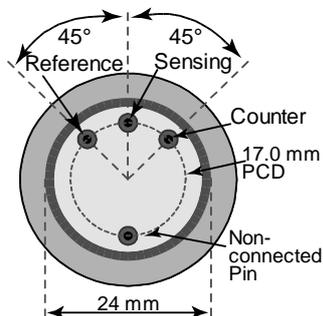
LIFETIME

Expected Operation Life	1 years in air
Expected Long Term Output Drift in air	< 5 % 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

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

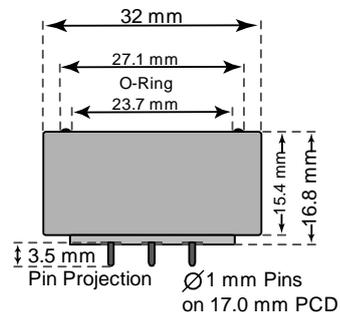
Compact-Size Outline Dimensions

BOTTOM VIEW



± 0.10 mm

SIDE VIEW



MECHANICAL

Weight	13 g
Position Sensitivity	None

APPLICATIONS

Discontinuous Measurement
Fruit Ripening

CROSS-SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Cross-Sens. %
CO	< 60 %

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TEMPERATURE DEPENDENCE

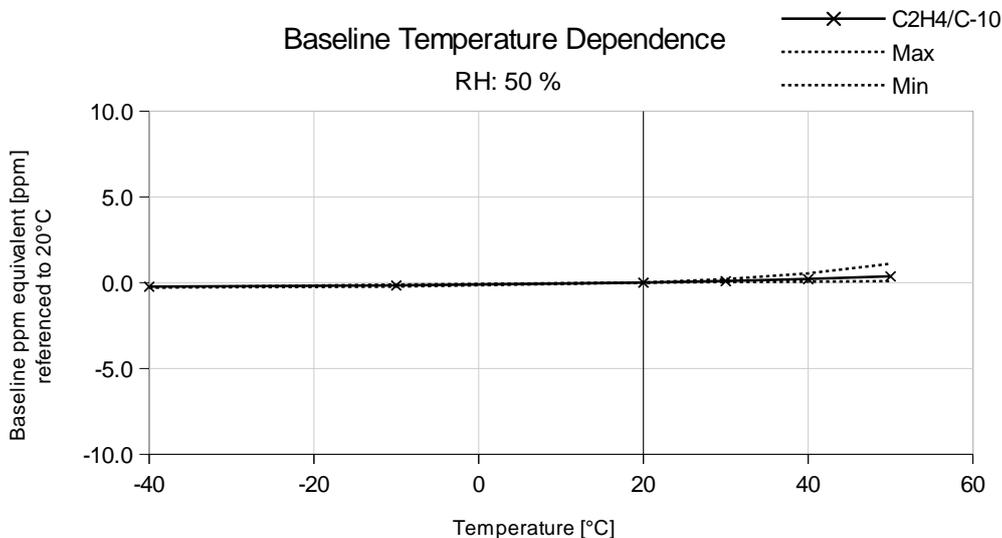


Figure 2: The shift in baseline shown in ppm referenced to 20 °C and a relative humidity of 50%.

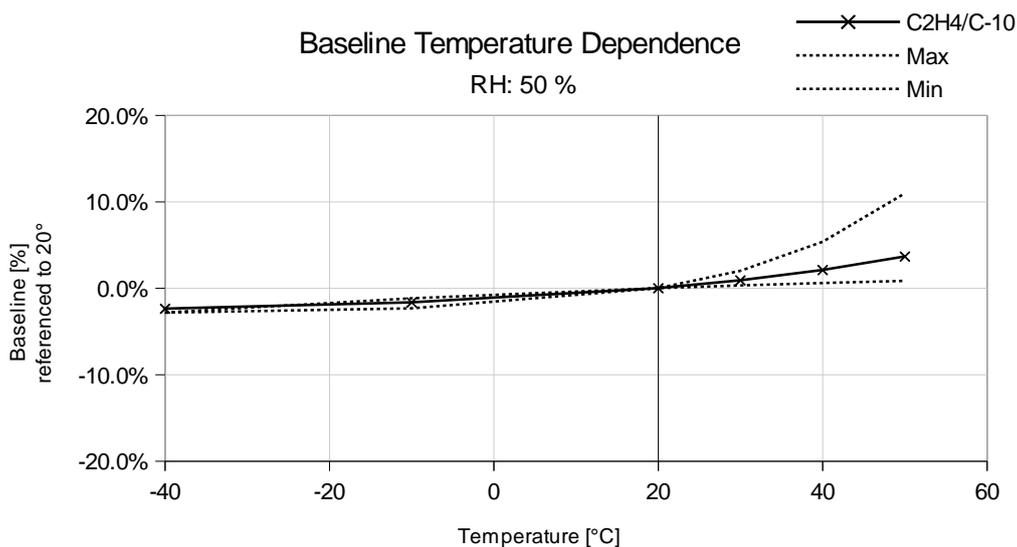


Figure 3: The shift in baseline expressed as percentage of the measurement range referenced to 20 °C and a R.H. of 50%.

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