MEMBRAPOR SPECIFICATION SHEET







CI2/M-20

Chlorine Gas Sensor in Mini Housing

MEASUREMENT

Operation Principle	3-Electrode Electrochemical	
Nominal Range	0 – 20 ppm	
Maximum Overload	200 ppm	
Inboard Filter	_	
Output Signal	-600 ± 150 nA/ppm	
Resolution (Electronics dependent)	< 0.1 ppm	
T80 Response Time	< 30 sec	
Typical Baseline Range (pure air, 20°C)	< 0.2 ppm	
Maximum Zero Shift (+20°C to +40°C)	-0.4 ppm	
Repeatability	< 2 % of signal	
Output Linearity	Linear	
Gain	_	

ELECTRICAL

Rec. Load Resistor	10 – 33 Ohm
Bias (V_Sens-V_Ref)	Not required
Conformity to RoHS directive	RoHS Compliance

ENVIRONMENTAL

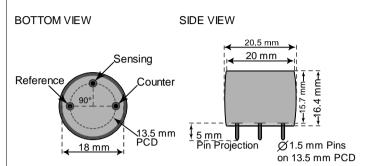
Relative Humidity Range	15 % to 90 % R.H. non- condensing
Temperature Range	-20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	none

LIFETIME

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	N.D.
Filter Life	_
Ctorogo Life	Consorth a local state of a second
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C

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

Miniature-Size Outline Dimensions



± 0.10 mm

MECHANICAL

Weight	5.5 g
Position Sensitivity	None

APPLICATIONS

Continuous Air Quality Monitoring Safety and Environmental Control

CROSS-SENSITIVITY DATA

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

Interfering Gas	Conc.	Reading
	ppm	ppm
Br ₂	10	ppm 2.5
CIO ₂	3	~3
CO	300	0
SO ₂	5	0
CO SO ₂ NO	35	0
H_2	300	0
NO ₂ H ₂ S	20	~20
H ₂ S		ND

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TEMPERATURE DEPENDENCE

The output of an electrochemical sensor varies with temperature. The graphs below show the variation in output with temperature for this type of sensor. The results are shown in the graphs as a mean for a batch of sensors. The sensitivity dependence is expressed as a percentage of the signal at 20 °C. The shift in baseline is shown in ppm referenced to 20 °C and a relative humidity of 50%.

Please note:

It is highly recommended to acquire the temperature dependence curves with the whole instrument. The sampling system, the humidity, the electronics, the interaction between the electronics and the sensor, all have a significant impact on the temperature dependence of the final measurement reading.

Sensitivity Temperature Dependence

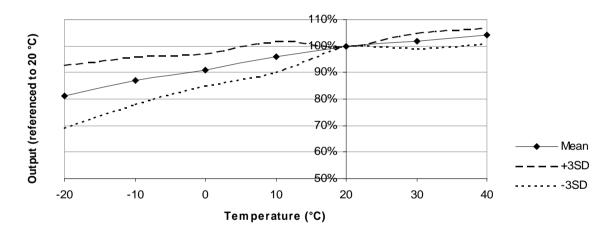


Figure 1: Sensitivity dependence expressed as a percentage of the signal at 20 °C. The result is shown along with confidence intervals corresponding to ±3 times the standard deviation.

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