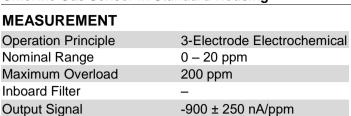
# MEMBRAPOR SPECIFICATION SHEET

# CI2/S-20

# **Chlorine Gas Sensor in Standard Housing**



Resolution
(Electronics dependent)

T80 Response Time < 60 sec

Typical Baseline Range
(pure air, 20°C)

<p>< 0.1 ppm</p>
< 0.1 ppm</p>

Maximum Zero Shift (+20°C to +40°C) -0.2 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	0(  . ! ( . !
Storage Life	6 months in container
Rec. Storage Temperature	5 °C – 20 °C

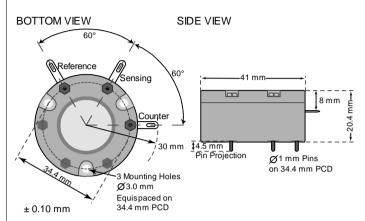
Performance data conditions: 20 °C, 50% RH, 1013 mbar







#### Standard-Size Outline Dimensions



# **MECHANICAL**

Weight	32 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 <sub>2</sub>	10	<b>ppm</b> 2.5
CIO <sub>2</sub>	3	~3
CO	300	0
SO <sub>2</sub>	5	0
CO SO <sub>2</sub> NO	35	0
$H_2$	300	0
$NO_2$	20	~20
NO <sub>2</sub> H <sub>2</sub> S		ND

REV.: 06/2018 Page 1 of 2

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# MEMBRAPOR SPECIFICATION SHEET

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# **Chlorine Gas Sensor in Standard Housing**



### **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.

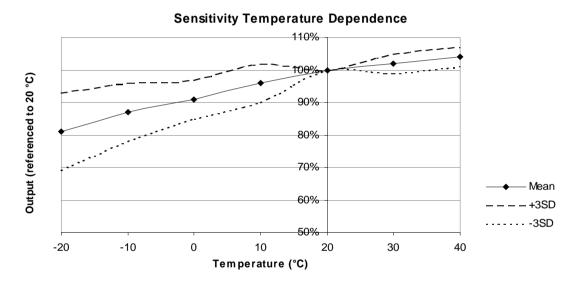


Figure 1: Sensitivity dependence expressed as a percentage of the signal at 20 °C. The result is shown along with confidence intervals corresponding to ±3 times the standard deviation.

REV.: 06/2018 Page 2 of 2

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