

SureCell - Cl₂

Innovation, Quality and Expertise for Gas Detection.

Operating Performance

3-electrode electrochemical	
Chlorine	
0-20 ppm	
50 ppm	
2 years in air	
0.50 <u>+</u> 0.10μA per ppm	
Continuous: -20°C to +40°C	
Intermittent: -40°C to +55°C	
1 atm <u>+</u> 10%	
Continuous: 15 - 90% RH	
Intermittent: 0 - 99%RH	
<60 seconds	
<±0.25ppm equivalent	
<±0.5ppm equivalent	
<2% per month	
< <u>+</u> 5%	
Linear < <u>+</u> 3%	
5Ω	
Not required	

Intrinsic Safety Data

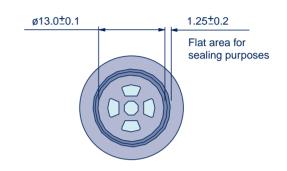
Maximum at 50ppm	0.05mA
Maximum o/c Voltage	0.8V
Maximum s/c Current	<1.0A

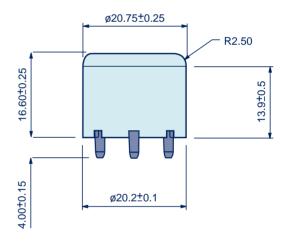
Physical Specification

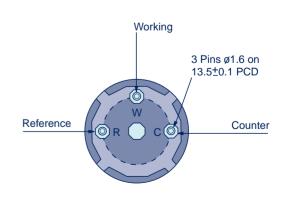
Weight	5g (approx)
Housing Material	Noryl 110
Storage Life	6 months in sealed container
Storage Conditions	+10°C to +30°C
Orientation	Any
Warranty Period	18 months from date of despatch

Ordering Details

Crucing Details	
Part Number	2112B2035
Order From	Sixth Sense
	Hatch Pond House, 4 Stinsford Road
	Poole, Dorset, England BH17 0RZ
	T: +44 (0) 1202 645770
	F: +44 (0) 1202 665331
	E: sensors@sixth-sense.com
Code data: 09/03	W: www.sixth-sense.com





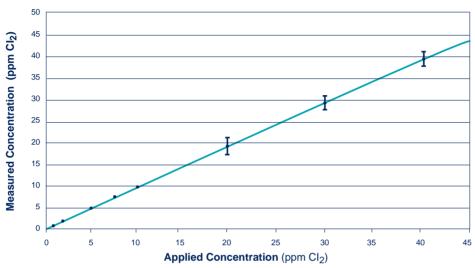




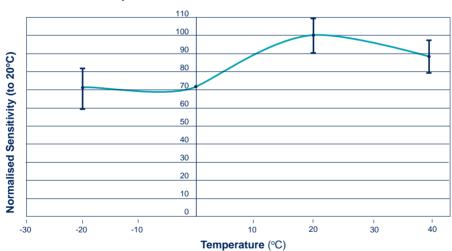
Additional Information

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Linearity of Cl₂ SureCells across Measurement Range



Temperature Coefficients of Chlorine SureCells



Cross Sensitivity Table							
Gas	Concentration Used (ppm)	Reading (ppm Cl ₂)	Gas	Concentration Used (ppm)	Reading (ppm Cl₂)		
Hydrogen Sulphide	25	-16.3	Carbon Dioxide	20000	0		
Sulfur Dioxide	50	9.1	Ammonia	50	-1.9		
Nitrogen Dioxide	50	1.25	Hydrogen Chloride	9	1.25		

In the interest of product improvement, Sixth Sense reserves the right to alter design features and specifications without notice. Unless otherwise stated, all product specifications are quoted at standard temperature and pressure.

*Note: The figures in this table are typical values and should not be used as a basis for cross calibration. Cross sensitivities may not be linear and should not be scaled. All data based on a 5 minute gassing. For some cross interferents break through will occur if gas is applied for a longer time period.