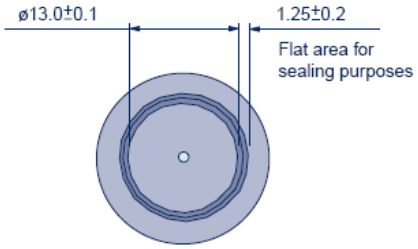
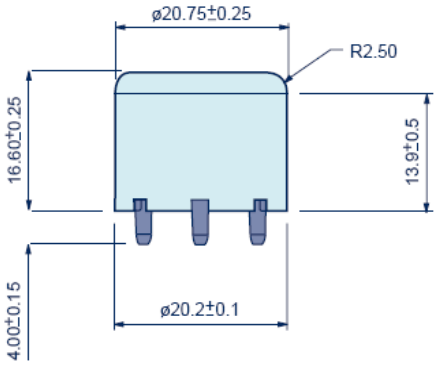
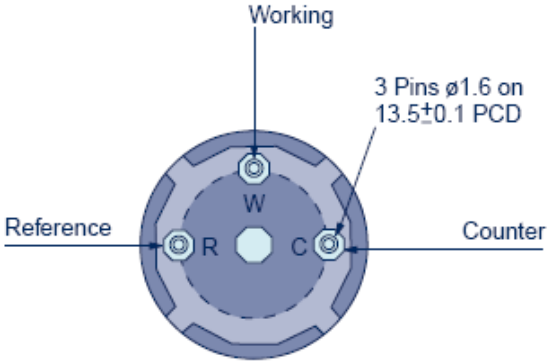
SURECELL Chlorine Cl2 Sensor





OPERATING PERFORMANCE

Operating principle:	3-electrode electrochemical
Gas detected:	Chlorine (Cl2)
Measurement range:	0 – 20ppm
Maximum overload[1]:	50ppm
Expected Lifetime:	2 years in air from date of manufacture
Output signal:	0.50 ± 0.10 µA/ppm
Temperature range[2]:	Continuous: -20°C to +40 °C Intermittent: -40°C to +55 °C
Pressure range:	1 atm ± 10%
Humidity range (non condensing):	Continuous: 15 - 90% Intermittent: 0 – 99%
Response time(T^5_{90}):	< 60 seconds
Baseline offset (clean air):	<±0.25ppm equivalent
Zero shift (-40 to + 55°C):	<±0.5ppm equivalent
Long term output drift:	< 2% per month
Repeatability:	< ±5%
Linearity:	Linear < ±3%
Recommended load resistor:	5Ω
Bias voltage:	Not required



INTRINSIC SAFETY DATA

Maximum current at 50ppm:	0.05mA
Maximum O.C. voltage:	0.8V
Maximum S.C current:	< 1.0A

PHYSICAL SPECIFICATION

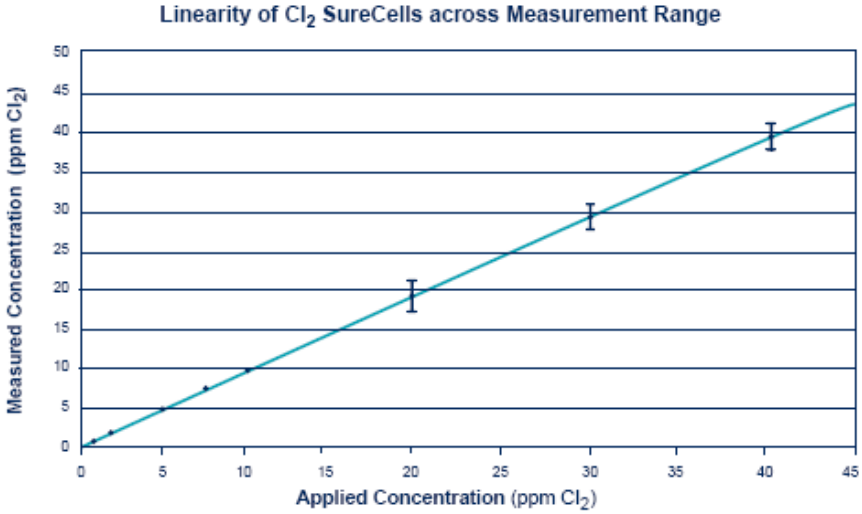
Weight:	5g (approx)
Housing material:	Noryl 110
Storage life:	6 months in sealed container
Storage conditions:	+10°C to +30°C
Orientation:	Any
Warranty period:	18 months from date of despatch
Part number:	2112B2035

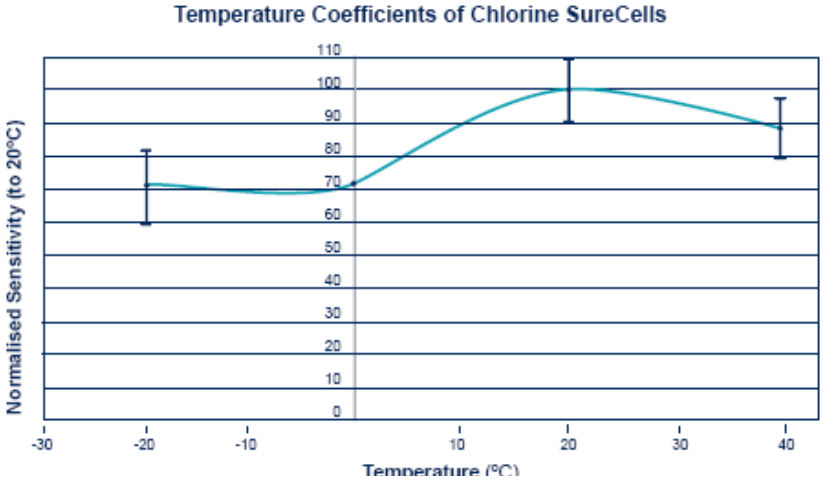
Important Notes: 1. After exposure to high concentrations of Chlorine, the cell should be left for an extended period of time to recovery fully its original characteristics. 2. The performance characteristics are based on this temperature range. However the cell can be used outside this range but not all performance specifications will then be valid. If the cell is to be used outside this range, then the user should characterise the cell for their application. 3. All product specifications are quoted at standard temperature and pressure. 4. Poisoning: The Cl2 sensor is designed for operation in a wide range of environments and harsh conditions. However it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instruments and operation. When using sensors with printed circuit boards (PCBs), degreasing agents should be used before the sensor is fitted. Do not glue directly on or near the Cell, as the solvent may cause crazing of the plastic.

EURO-GAS MANAGEMENT SERVICES LTD, CHURSTON HOUSE,
BASCOMBE ROAD, CHURSTON FERRERS, DEVON, TQ5 0JJ, UK
☎: +44 (0)1803 844414 Fax: +44 (0)1803 844224
euro-gas@btconnect.com www.euro-gasman.com

EURO-GAS
MANAGEMENT SERVICES LTD

SURECELL Chlorine Cl2 Sensor





Cross Sensitivity Table					
Gas	Concentration Used (ppm)	Reading (ppm Cl_2)	Gas	Concentration Used (ppm)	Reading (ppm Cl_2)
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

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.

01/13

EURO-GAS MANAGEMENT SERVICES LTD, CHURSTON HOUSE,
BASCOMBE ROAD, CHURSTON FERRERS, DEVON, TQ5 0JJ, UK
☎: +44 (0)1803 844414 Fax: +44 (0)1803 844224
euro-gas@btconnect.com www.euro-gasman.com

EURO-GAS
MANAGEMENT SERVICES LTD