

## Operating Performance

Operating Principle	3-electrode electrochemical
Gas Detected	Hydrogen Sulphide
Measurement Range	0-200 ppm
Maximum Overload	400 ppm
Expected Operating Life	2 years in air
Output Signal	0.35 ±0.1 µA per ppm
Temperature Range	Continuous: -20°C to +40°C Intermittent: -40°C to +55°C
Pressure Range	1 atm ±10%
Humidity Range	Continuous: 15 - 90% RM (non-condensing) Intermittent: 0 - 99% RM
Response Time (T <sup>90</sup> )	<10 seconds
Baseline Offset (clean air)	<±1.0ppm equivalent
Zero Shift (-40°C to +50°C)	<±0.5ppm equivalent
Long Term Output Drift	<2% per month
Repeatability	<±5%
Linearity	Linear <±5%
Recommended Load Resistor	5Ω
Bias Voltage	Not required

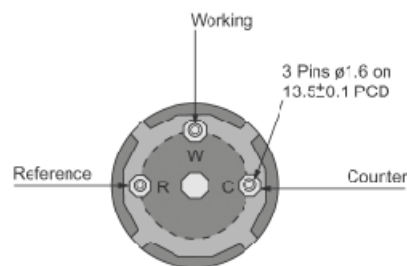
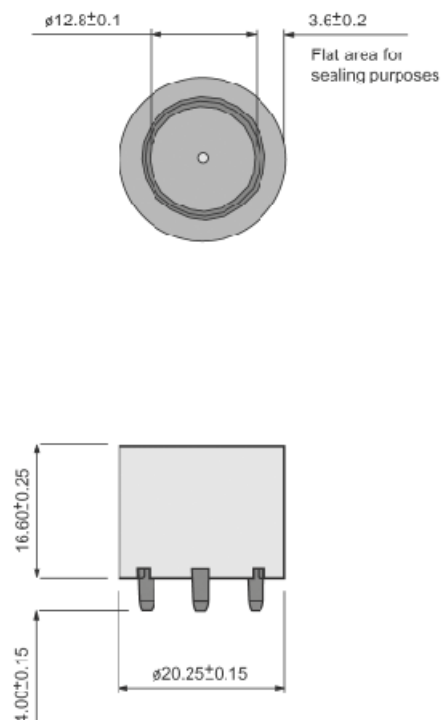
## Intrinsic Safety Data

Maximum at 400ppm	0.2mA
Maximum o/c Voltage	0.8V
Maximum s/c Current	<1.0A

## Physical Specification

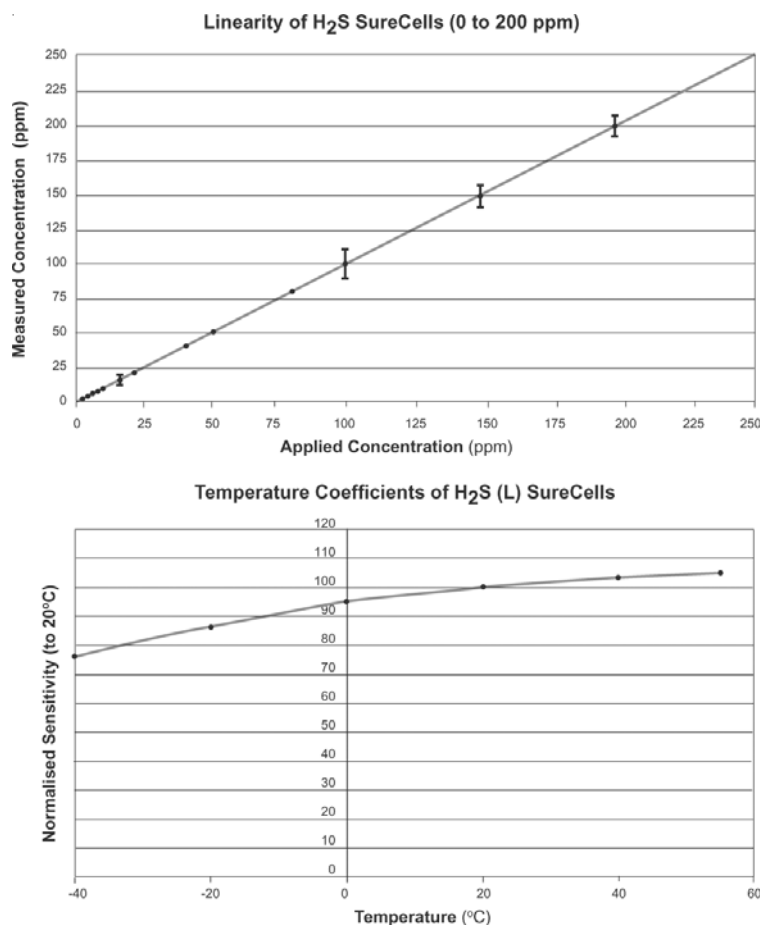
Weight	5g (approx)
Housing Material	Noryl 110
Storage Life	6 months in sealed container
Storage Conditions	+10°C to +30°C
Orientation	Any
Warranty Period	18 months from date of despatch

## Outline Dimensions



All dimensions in mm  
All tolerances ±0.15mm unless otherwise stated

# Product Data Sheet



## Cross Sensitivity Table

Gas	Concentration Used (ppm)	Reading (ppm H <sub>2</sub> S)	Gas	Concentration Used (ppm)	Reading (ppm H <sub>2</sub> S)
Carbon Monoxide	50	0	Ethanol		TBA
Hydrogen Sulphide	10	10	Propanol		TBA
Sulphur Dioxide	2	0	Acetone		TBA
Nitrogen Dioxide	3	0	Ozone		TBA
Nitric Oxide	25	0	Arsine		TBA
Chlorine	0.5	0	Diborane		TBA
Hydrogen Sulphide	100	0	Phosphine		TBA
Ethylene	100	0	Silane		TBA
Carbon Dioxide	5000	0	Germane		TBA
Ammonia	50	0	Hydrogen Chloride		TBA
Methane		TBA			

**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 interferences break through will occur if gas is applied for a longer time period.

The data contained in this document is intended for guidance only and it is the Clients' responsibility to perform any necessary tests to ensure correct performance of this product in specific application for which it is intended. In the interest of product improvement, Sixth Sense reserve the right to alter and amend the product and its performance without notice. As this product may be used by the Client in circumstances outside the control of Sixth Sense, we cannot give any warranty as to the accuracy of these details in any specific application.

