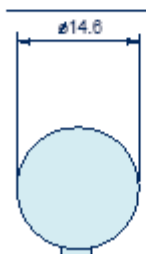
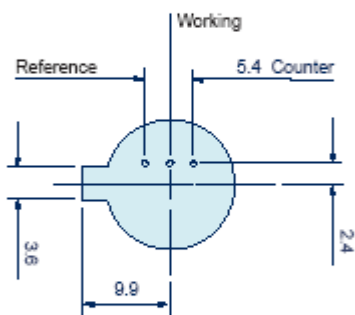
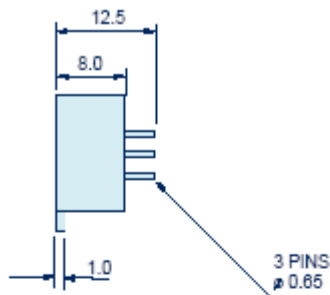


MICRO TOXIC GAS SENSORS



With a growing demand for smaller “clip-on” personal monitors and multi-gas portable detectors, electrochemical sensors have had to become smaller than ever before. The MICRO range has been designed to allow manufacturers of portable instrumentation the option of further reducing the size of their products. At less than 1.25cm³ in volume, the MICRO is a true industrial sensor in the smallest package in the World.

Despite their diminutive size, the MICRO sensors incorporate a unique design to ensure that they surpass industry standards for accuracy and repeatability, providing normal lifetimes in excess of three years.



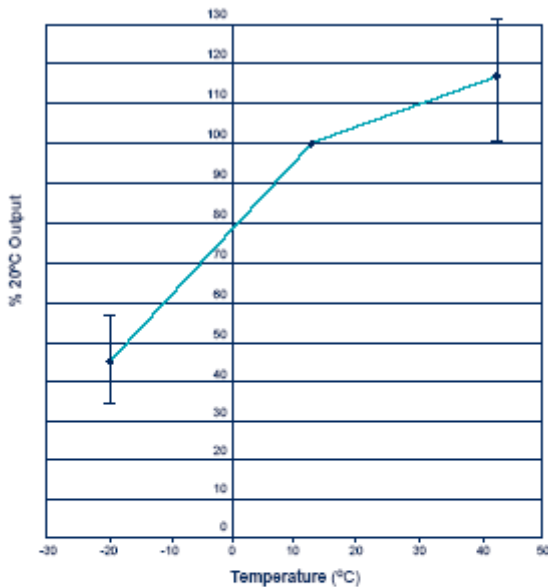
CO MICRO SPECIFICATION

Operating Principle:	3-electrode electrochemical
Gas Detected:	Carbon Monoxide
Measurement Range:	0 – 1,000ppm
Maximum Overload:	2,000ppm
Expected Operating Life:	3 years in air
Output Signal:	0.035 ± 0.015µA per ppm
Temperature Range:	-20°C to +50°C
Pressure Range:	1 atm ± 10%
Humidity Range (non-condensing):	Continuous: 15-90% RH Intermittent: 0-99% RH
Response Time (T⁵₉₀):	< 45 seconds
Baseline Range (clean air):	±10ppm equivalent
Zero Shift (=20°C to =40°C):	<+4ppm
Long Term Output Drift:	-4% per year
Repeatability:	±5% of signal
Linearity:	±5% up to 1,000ppm
Recommended Load Resistor:	100Ω
Bias Voltage:	Not required

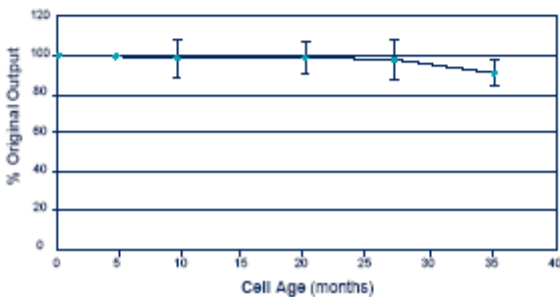


MICRO TOXIC GAS SENSORS

Co Micro Temperature Profile (200ppm Carbon Monoxide)



CO Micro Life Tests (100ppm Carbon Monoxide)



Intrinsic Safety Data

Maximum at 2,000ppm: 0.10mA
Maximum o/c Voltage: 1.3V
Maximum s/c Current: 1.0A

Physical Specification

Weight: Approx 1.5g
Orientation: Any
Housing Material: Polycarbonate (green)
Storage Life: 6 months in sealed container
Storage Conditions: 10-20°C, 45-75% RH in clean air
Warranty Period: 12 months from date of despatch

Part Number: 2112B1600

Cross Sensitivity Data

Gas	Concentration	Typical CO ₂ Equivalent
Carbon Dioxide	100ppm	<0.1
Carbon Monoxide	100ppm	100ppm
Chlorine	100ppm	<0.1
Ethylene	100ppm	243
Hydrogen	100ppm	20
Hydrogen Sulphide	100ppm	<0.1
Methane	100ppm	<0.1
Nitric Oxide	100ppm	23
Nitrogen Dioxide	100ppm	<0.1
Sulphur Dioxide	100ppm	<0.1

In the interest of product improvement Sixth Sense reserve the right to alter design features and specifications without notice.



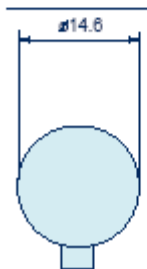
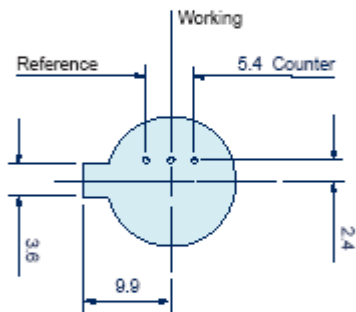
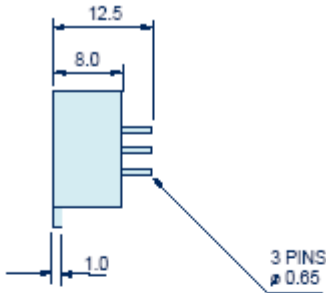
EURO-GAS MANAGEMENT SERVICES LTD, REVELSTOKE HOUSE,
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EURO-GAS
 MANAGEMENT SERVICES LTD

MICRO TOXIC GAS SENSORS

H₂S MICRO SPECIFICATION



Operating Principle:	3-electrode electrochemical
Gas Detected:	Hydrogen Sulphide
Measurement Range:	0 - 500ppm
Maximum Overload:	1,000ppm
Expected Operating Life:	3 years in air
Output Signal:	1.4 ± 0.6µA per ppm
Temperature Range:	-20°C to +50°C
Pressure Range:	1 atm ± 10%
Humidity Range (non-condensing):	Continuous: 15-90% RH Intermittent: 0-99% RH

Response Time (T⁵ 90):	< 75 seconds
Baseline Range (clean air):	±5ppm equivalent
Zero Shift (=20°C to =40°C):	TBA
Long Term Output Drift:	<-4% signal per year
Repeatability:	±5% of signal
Linearity:	±5% up to 500ppm
Recommended Load Resistor:	100 Ω
Bias Voltage:	Not required

Intrinsic Safety Data

Maximum at 1,000ppm:	1.8mA
Maximum o/c Voltage:	0.8V
Maximum s/c Current:	1.0A

Physical Specification

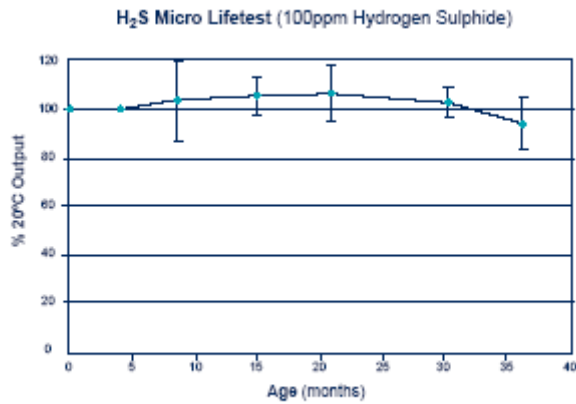
Weight:	Approx 1.5g
Housing Material:	Polycarbonate (red)
Storage Life:	6 months in sealed container
Storage Conditions:	10-20°C, 45-75% RH in clean air
Orientation:	Any
Warranty Period:	12 months from date of despatch

Part Number: 2112B1620



MICRO TOXIC GAS SENSORS

H₂S MICRO



Cross Sensitivity Data		
Gas	Concentration	Typical H ₂ S Equivalent
Phosphine	100ppm	80ppm
Carbon Monoxide	100ppm	8ppm
Chlorine	100ppm	-11ppm
Hydrogen	100ppm	<2ppm
Hydrogen Sulphide	100ppm	100ppm
Nitric Oxide	100ppm	<1ppm
Nitrogen Dioxide	100ppm	-24ppm
Sulphur Dioxide	100ppm	18ppm

In the interest of product improvement Sixth Sense reserve the right to alter design features and specifications without notice.

Cl₂ MICRO

Cross Sensitivity Data		
Gas	Concentration	Typical Cl ₂ Equivalent
Carbon Monoxide	100ppm	<0.1
Chlorine	100ppm	100ppm
Hydrogen	100ppm	<0.1
Hydrogen Sulphide	100ppm	-100
Methane	100ppm	<1ppm
Nitric Oxide	100ppm	<0.1
Nitrogen Dioxide	100ppm	100
Sulphur Dioxide	100ppm	-6

In the interest of product improvement Sixth Sense reserve the right to alter design features and specifications without notice.

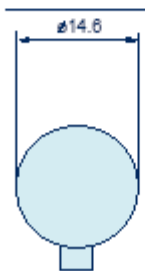
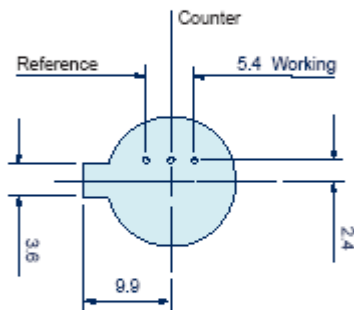
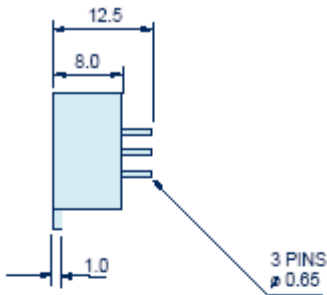


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EURO-GAS
MANAGEMENT SERVICES LTD

MICRO TOXIC GAS SENSORS



Cl₂ MICRO SPECIFICATION

Operating Principle:	3-electrode electrochemical
Gas Detected:	Chlorine
Measurement Range:	0 – 100ppm
Maximum Overload:	200ppm
Expected Operating Life:	3 years in air
Output Signal:	-0.04 ± 0.02µA per ppm
Temperature Range:	-20°C to +50°C
Pressure Range:	1atm ± 10%
Humidity Range (non-condensing):	Continuous: 15-90% RH Intermittent: 0-99% RH
Response Time (T5 90):	<30 seconds
Baseline Range (clean air):	±10ppm equivalent
Zero Shift (+20°C to +40°C):	TBA
Long Term Output Drift:	TBA
Repeatability:	± 10% of signal
Linearity:	± 5% up to 100ppm
Recommended Load Resistor:	100 Ω
Bias Voltage:	Not required

Intrinsic Safety Data

Maximum at 200ppm:	0.02mA
Maximum o/c Voltage:	0.85V
Maximum s/c Current:	1.0A

Physical Specification

Weight:	Approx 1.5g
Housing Material:	Polycarbonate (clear)
Storage Life:	6 months in sealed container
Storage Conditions:	10-20°C, 45-75% RH in clean air
Orientation:	Any
Warranty Period:	12 months from date of despatch

Part Number: 2112B1635

