



Innovation, Quality and Expertise for Gas Detection.

Catalytic Elements - CAT16

Operating Performance

Operating Principle	Constant current
Gas Detected	Most combustible gases & vapours
Measurement Range	0-100% LEL
Operating Voltage	2.7V \pm 0.2V
Operating Current	200mA
Maximum Power Consumption	580mW
Maximum Methane Concentration	5% v/v
Expected Operating Life	Greater than five years in air
Output Sensitivity	>12mV/% methane
Temperature Range	-40°C to +50°C
Pressure Range	1 atm \pm 10%
Humidity Range (non-condensing)	Continuous: 15-90% RH Intermittent: 0-99% RH
Response Time (T ⁵ ₉₀)	<10 seconds
Long Term Zero Drift	<+3% LEL methane per year
Long Term Span Drift	<+3% LEL methane per year
Linearity	\pm 10% LEL up to 100% LEL

Poison Resistance

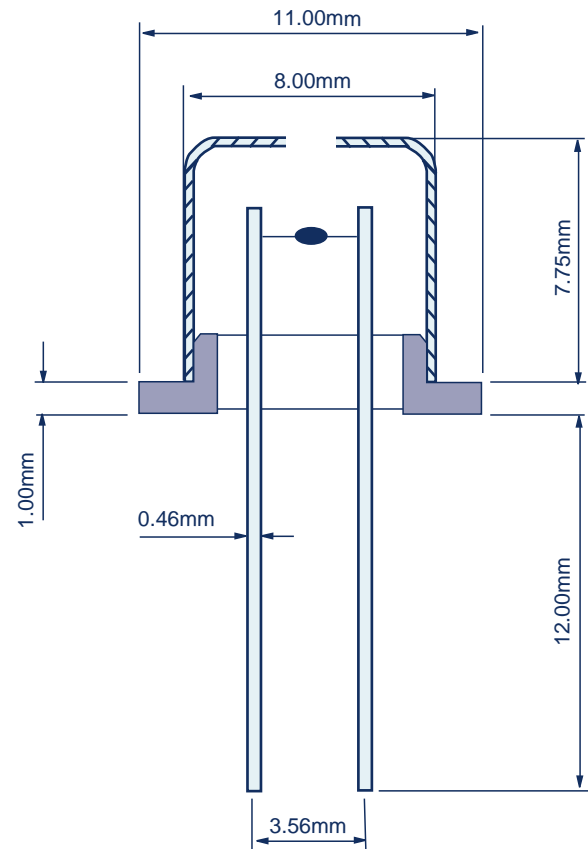
Hexamethyl-Disiloxane	Very high
Hydrogen Sulphide	Very high

Physical Specification

Can Type	Closed
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

Ordering Details

Part Number	2111B2016
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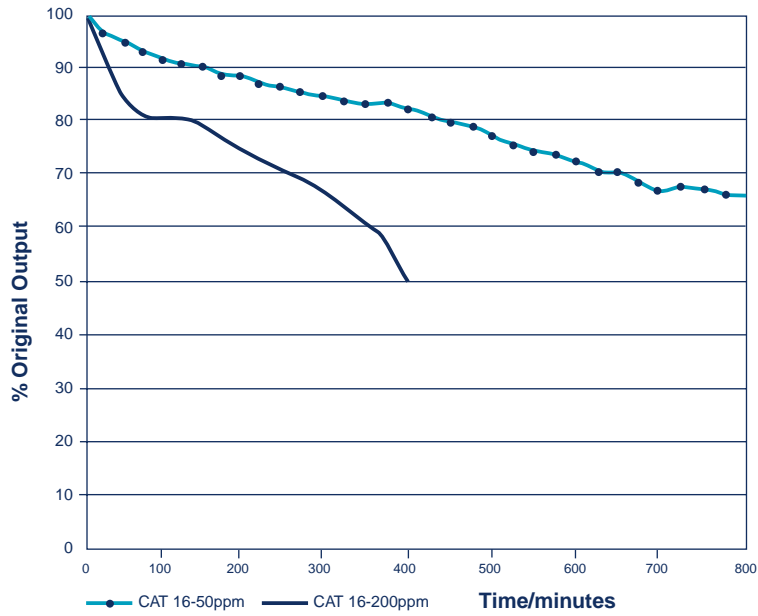




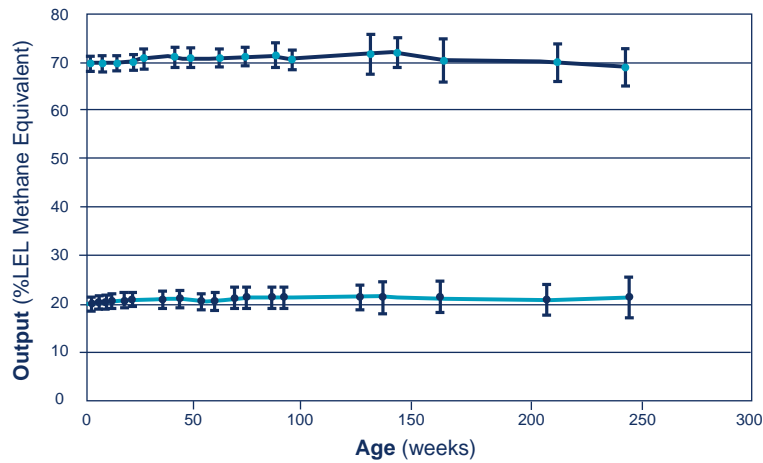
Additional Information

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CAT16 Poison Resistance (2.5% v/v methane, 50ppm & 200ppm HMDS)



CAT16 Lifetests



Relative Response Data*			
Gas/Vapour	Relative Response%	Gas/Vapour	Relative Response%
Methane	100	Ethanol	54
Hydrogen	121	Propan-2-ol	40
Ethane	70	Acetone	42
Propane	61	Butan-2-one (MEK)	40
Butane	49	MIBK	30
Pentane	42	Cyclohexane	37
Hexane	39	Di-Ethyl Ether	39
Heptane	35	Ethyl Acetate	37
Octane	32	Toluene	35
Ethylene	70	Xylene	26
Methanol	72	Acetylene	39

*Note: These figures are to be used as a guide only. For greatest accuracy, gas detectors should be calibrated with the target gas. In the interest of product improvement Sixth Sense reserve the right to alter design features and specifications without notice.