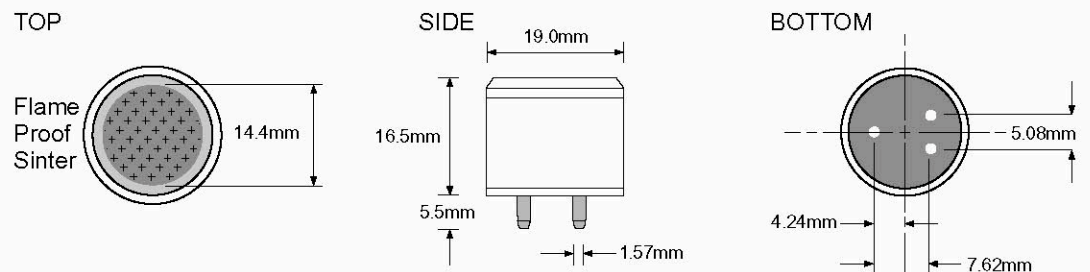




# CATALYTIC SENSORS

## Zellpell Midi Type 1 (3AC)



data sheet

### Product description

A range of Electro-Catalytic diffusion limited, combustible gas detectors, supplied in metal housings and fitted with integral connection pins and flame arresting sinters. All versions of Midi are Component Recognised/Approved by UL, CSA and BASEEFA, making them ideal for incorporation into separately certified gas detection apparatus either portable or fixed.

Within the enclosure a variety of alternative detecting elements can be incorporated. These allow the sensor to be tailored for either the industrial, commercial or domestic environments.

Note: Although Midi are components approved by UL, CSA and BASEEFA, further "apparatus approval" must be obtained for the intended equipment for use in Hazardous Areas/locations.

### Approvals

UL: File No. 216146 Class 1, Div 1, Groups ABCD and Class 1, Zone 1

CSA: Cert. No. 1205473 Class 1, Div 1, Groups ABCD and Class 1, Zone 1

BASEEFA (Cenelec ATEX): BAS No. 01ATEX2122U EEx d IIC (II 2G)

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## General Specification

### Operating Performance:

Operating Principle	Constant voltage
Gas Detected	Most combustible gases & vapours
Measurement Range	0-100% LEL
Operating Voltage	3.3V $\pm$ 0.02V
Operating Current	70mA $\pm$ 5mA
Maximum Power Consumption	230mW
Certified Power Dissipation	Pmax 0.4W Vmax 9V
Maximum Methane Concentration	5% v/v
Expected Operating Life	2-years in air
Output Sensitivity	>20mV/% methane
Temperature Range	-55°C to +55°C
Humidity Range (non-condensing)	Continuous: 0-90% RH Intermittent: 0-99% RH
Response Time (T590)	<10 seconds
Long Term Zero Drift	< $\pm$ 5% LEL methane per year
Long Term Span Drift	< $\pm$ 2% LEL methane per month
Linearity	$\pm$ 10% LEL up to 100% LEL

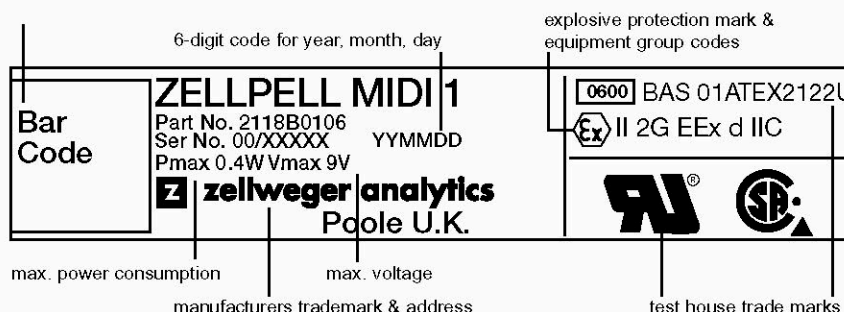
### Physical Specification:

Housing Material	Aluminium Alloy (BS4300) – 12.6 gms
Sinter Material	Stainless Steel ANSI 316 90 $\mu$ m maximum pore size 4.0 to 4.5g/cm <sup>3</sup> density
Label	Metallised polymer
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	2118B0106
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bar code containing serial no.



#### Special Conditions of Use: Midi Sinters are "Component Approved/Recognised"

1. All versions of Midi shall be enclosed within a protective enclosure, affording direct impact resistance.
2. Supply pins shall be fed from an intrinsically safe source, e.g. as derived from a multi-gas portable.
3. Additional "Apparatus Approval" must be obtained before incorporation of all versions of Midi Combustible Sensing elements.
4. Intended for use at atmospheric pressure only (1.1 bar).

*This publication is not intended to form the basis of a contract, and the company reserves the right to amend the design and specification of the instruments without notice.*

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