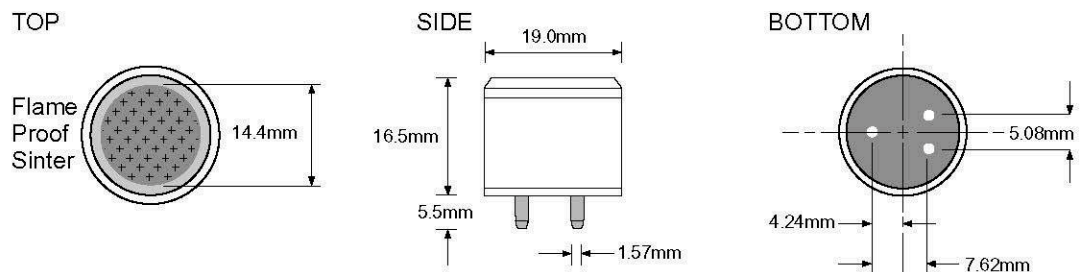




CATALYTIC SENSORS

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)

EURO-GAS
MANAGEMENT SERVICES LTD

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

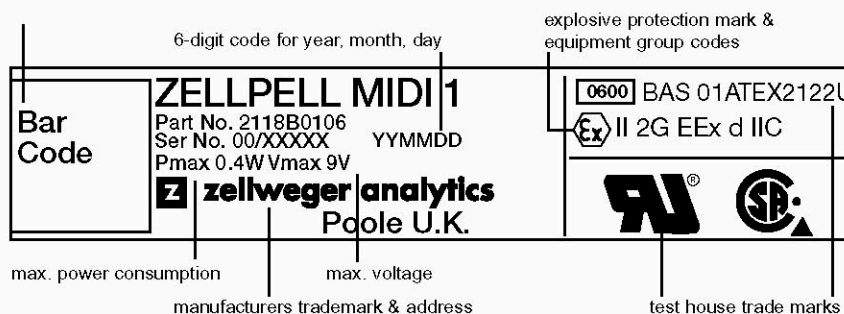
Physical Specification:

Housing Material	Aluminium Alloy (BS4300) – 12.6 gms
Sinter Material	Stainless Steel ANSI 316 90 μ m maximum pore size 4.0 to 4.5g/cm ³ 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.