Product Data Sheet

P/N : GS+701

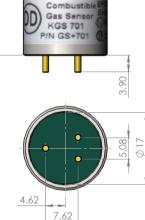


Introduction The GS+701 is a high quality combustible sensor, ideal for use in portable gas detectors.

Key Features: high stability, poison resistant, fast response and recovery, robust design.

Performance Characteristics	
Operating Principle	Catalytic Oxidation
Gases Detected	Most combustible gases and vapours
Range	0 - 100% LEL
Operating Voltage	3.0 VDC
Operating Current	76 ± 7 mA
Sensitivity	29 ± 5 mV / %methane
T90 Response Time	< 20 seconds (methane)
Initial Warm-up Time	< 30 seconds
Linearity	3% methane
Baseline Stability	±0.3% LEL propane
Short-term Baseline Drift	±0.3% LEL propane
Environmental Details	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	0% to 90% RH





Product Dimensions All dimensions in mm All tolerances ±0.15 mm

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Important Note:

All performance data is based on conditions at 23±2°C, 60%RH and 1 atm, using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.

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GS+701 Combustible Sensor

Lifetime Details				
Long Term Sensitivity Drift	< 5% signal / month			
Long Term Zero Drift	< 5% LEL / month (methane) in clean air			
Recommended Storage Temp	0°C to 20°C			
Expected Operating Life	24 months			
Standard Warranty	24 months from date of dispatch			

Gas/Vapour	% Relative Sensitivity		
	Average	Range	StDev
Methane	100	-	-
Hydrogen	140	96-225	30
Acetylene	58	51-65	3
Ethylene	152	76-237	39
Propane	78	64-93	4.7
Isobutane	79	60-97	9
n-Pentane	77 est.	N/D	N/D
Hexanes	76	57-108	10

Product Approval



Approval Body : UNDERRWITERS LABORATORIES INC. Test Standard : UL 913 Product Categories : Class 1, Division 1, Groups A, B, C, D Certificate Number : E248963

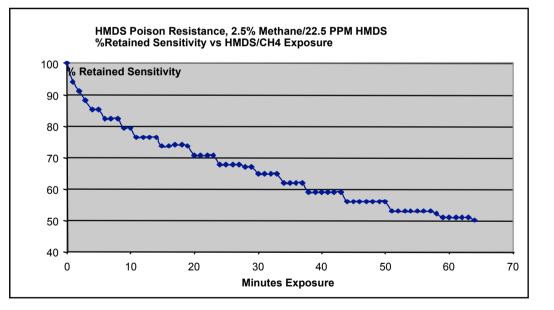




Test Standard : IEC 60079-0:2004, Edition 4.0 IEC 60079-1:2001, Edition 4 Product Categories : Ex d IIC T6 Certificate No. : IECEx TUVSPS 07.0001U



Approval Body : Canadian Standards Association Test Standard : CAN/CSA-C22.2 No. 0-M91 CSA Std C22.2 No. 30-M1986 File Number : 237868



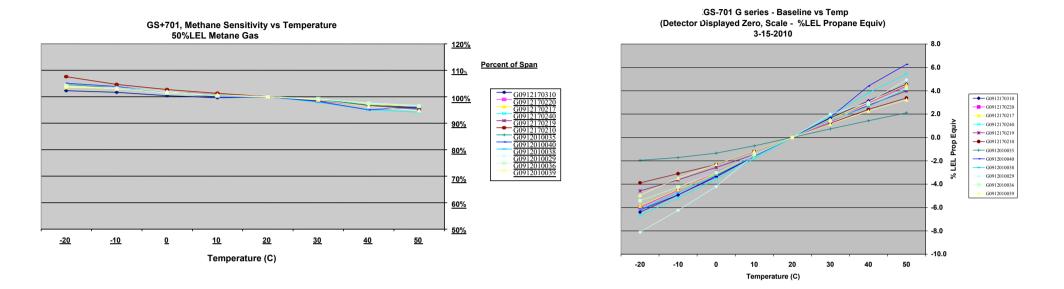


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Poisoning:

Poisoning: some compounds will decompose on the catalyst and form a solid barrier over the catalyst surface. This action is cumulative and prolonged exposure will result in an irreversible decrease in sensitivity. The most common of these substances are: volatile lead or sulphur containing compounds; silicones; phosphates.

Inhibition: certain other compounds, especially hydrogen sulphide and halogenated hydrocarbons, are absorbed or form compounds that are absorbed by the catalyst. The resultant loss of sensitivity is temporary and in most cases a sensor will recover after a period of operation in clean air.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when connecting DD Scientific sensors.

WARNING: By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

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