

KGS 701



Enhanced Features

- Significantly increased HMDS (silicone) resistance
- Significantly increased H₂S inhibition resistance
- Excellent shock resistance and reduced orientation effects
- Reduced response time and wake up times

Specifications

Gases Detected	Most combustible gases
Range	0 ~100% LEL
Operating Voltage	3.0 V
Current	> 76 ± 6 mA
Output Sensitivity	29 ± 5 mV / % methane
Zero Offset Voltage	-20 ~ 20 mV (23 ± 2°C, 60% RH)
Linear to	3% methane
T ₉₀ Response Time	< 10 seconds (methane)
Long Term Sensitivity Drift	< 5% signal / month
Long Term Zero Drift	< 5% LEL (methane)/ month
Warranty Period	1 year from date of despatch

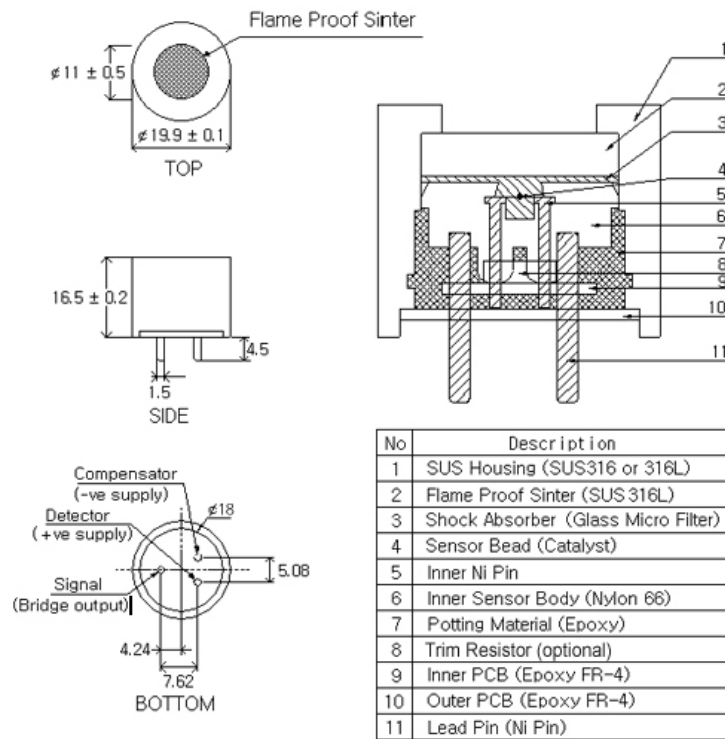
* Flow rate of 300ml/min. Conditions at 23 ± 2 °C, 60% RH, and 1 atm unless otherwise noted.

Relative Sensitivity

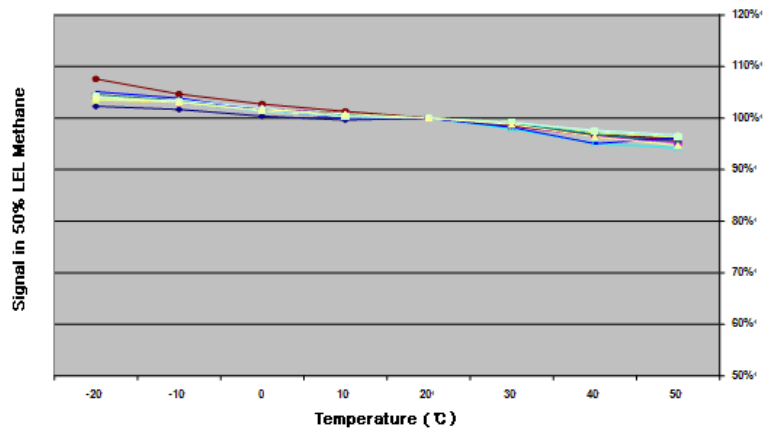
Gas/Vapor	% Relative Sensitivity
Methane	100
Hydrogen	106
Ethylene	96
Propane	82
Isobutane	74
n-Pentane	67
Hexanes	50

* The results are intended for guidance only at the same %LEL concentration

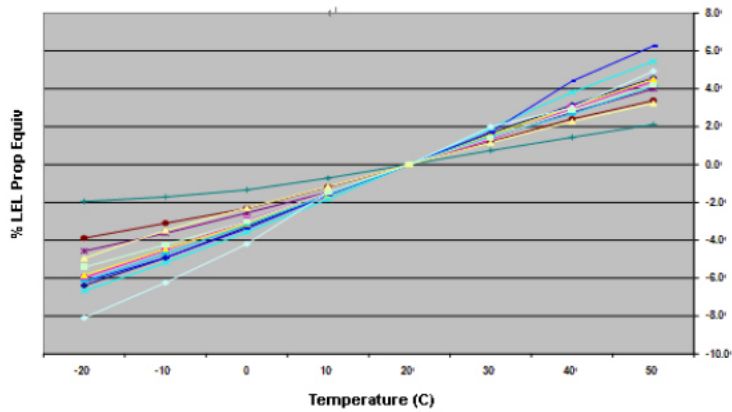
Structure and Materials



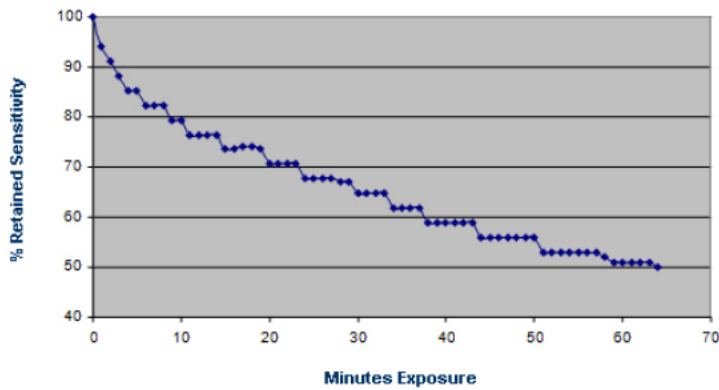
Effect of Temp. on Methane Signal



Effect of Temp. on Zero Offset Signal



HMDS Poisoning Test



Product Approval



Approval Body : Underwriters Laboratories Inc.
 Test Standard : UL 913
 Product Categories : Class 1, Division 1, Groups A, B, C, D
 Certificate Number : E248963



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



Approval Body : Bureau Veritas
 Test Standard : EN60079-0:2012+A11:2013
 EN60079-1:2014
 Product Categories:
 II 2G Ex db IIC Gb, $-40^{\circ}\text{C} \leq \text{Tamb} \leq +55^{\circ}\text{C}$
 II 1G Ex da IIC Ga, $-20^{\circ}\text{C} \leq \text{Tamb} \leq +55^{\circ}\text{C}$
 Certificate Number: EPS 17 ATEX 1 107 U



Test Standard : IEC60079-0:2011, Edition 6.0
 IEC60079-1:2014-06, Edition 7.0
 Product Categories : Ex db IIC Gb, Ex da IIC Ga
 Certificate Number : IECEx EPS 17.0058U



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