KGS 701



特征

- 优越的 HMDS 抵抗性
- 优越的 H2S 抵抗性
- 优秀的冲击抵抗性及稳定性
- 敏锐的反应性

Specifications

检测气体	大部分的可燃性气体	
检测范围	0 ~100% LEL	
工作电压	3.0 V	
电流	> 76 ± 6 mA	
输出灵敏度(Output Sensitivity)	27 ± 5 mV / % methane	
初始时(Zero Offset Voltage)	-20 ~ 20 mV (23 ± 2°C, 60% RH)	
线性度(Linear to)	3% methane	
T90 响应时间	< 10 秒 (methane)	
灵敏度变化 (Long Term Sensitivity Drift)	< 5% signal / 月	
零点漂移 (Long Term Zero Drift)	< 5% LEL (methane) / 月	
保修期	从销售日1年	
* 流率: 300ml/min. 环境条件: 温度23±2℃, 相对湿度60%, 1标准大气压		

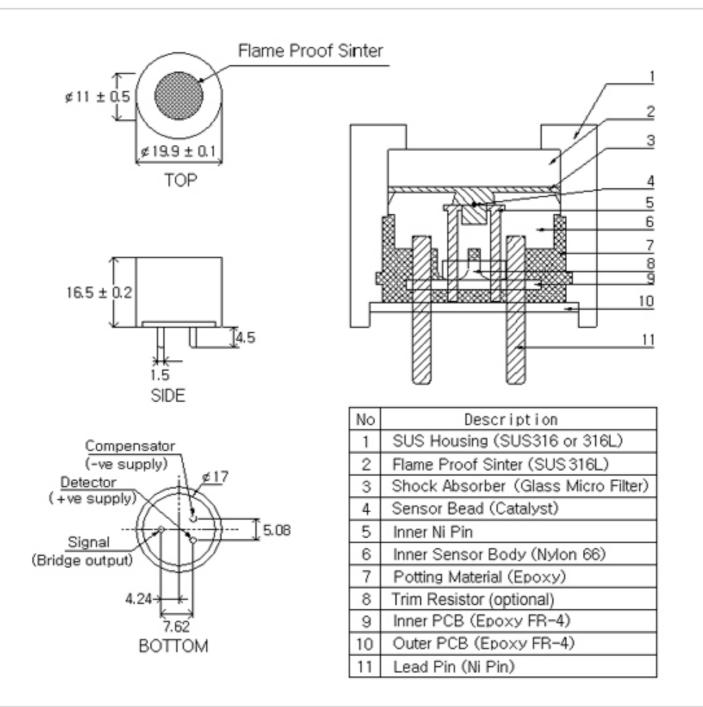
流率: 300ml/mln. 坏境余件: 温度23±2 C, 相对湿度60%, 1标准大气压

Relative Sensitivity

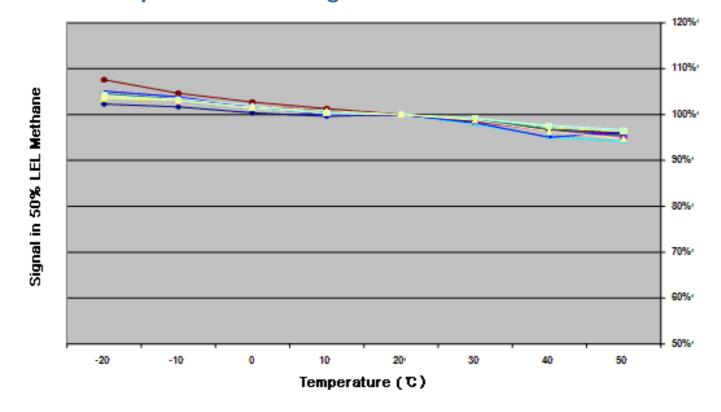
Gas/Vapor	% Relative Sensitivity
Methane	100
Hydrogen	106
Ethylene	96
Propane	82
Isobutane	74
n-Pentane	67
Hexanes	50

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

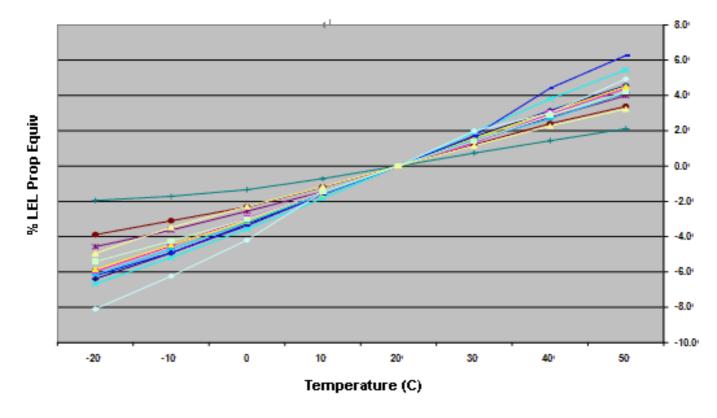
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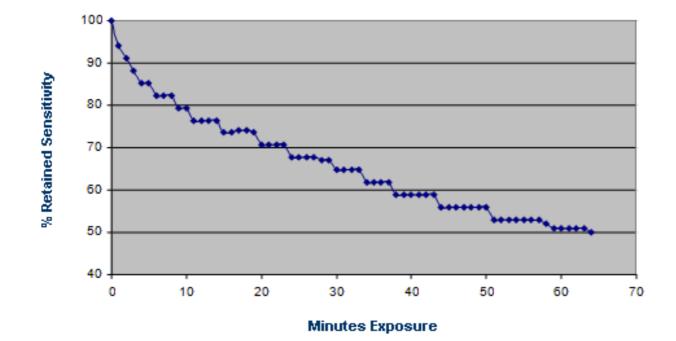
Effect of Temperson Tempe Stor Fax:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com



Effect of Temp. on Zero Offset Signal



HMDS Poisorrefeed //www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com



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



Test Standard : IEC 60079-0:2007-10, Edition 5 IEC 60079-1:2007-04 Edition 6 Product Categories : Ex d IIC T6 Gb Certificate Number : IECEx EPS 12.0003U

Instructions Speciff使 地方相位如ssArea Installations^{76549 FAX:0755-83376182 E-MAIL:szss200163.com} (reference European ATEX Directive 94/9/EC, Annex II, 1.0.6)

Instructions for equipment covered by certificate number EPS 12 ATEX 1 410 U

1. With apparatus group IIA, IIB, and IIC, the equipment may be used with flammable gases and vapors with temperature classifications T1, T2, T3, T4, T5 and T6.

2. The equipment shall be used in ambient temperatures of -40° C to $+55^{\circ}$ C.

3. The equipment is not considered as a safety related device (as referred to by Directive 94/9/EC Annex II, clause 1.5)

4. Properly trained personnel shall install the equipment in accordance with the applicable code of practice (e.g. EN 60079-14)

5. Properly trained personnel shall carry out inspection and maintenance in accordance with the applicable code of practice (e.g. EN 60079-17)

6. Properly trained personnel shall carry out repair of this equipment in accordance with the applicable code of practice (e.g. EN 60079-19)

7. Sensor pins are designed to be connected to a gas detector which shall provide an intrinsically safe supply and having a maximum output power (Pmax) not exceeding 0.5W.

8. The confirmation of adequate sensor performance is recommended to be carried out regularly by a specified sensor calibration procedure. The calibration shall be done as often as needed according to surrounding environment where the sensor is intended to operate.

9. The following materials are used for the construction of this equipment.

Housing Material: Stainless steel 316 or 316L Sinter Material: Stainless steel 316L Maximum pore size of 70µm Density of 4.0 to 6.0g/cm³ Cement Material: Epoxy resin Maximum functional temperature of 150 °C

Where there is a risk of the equipment exposed to harmful substances (e.g. acidic liquids or gases that may damage metals, or solvents that may affect polymeric materials), the user is responsible for taking the suitable precautions (e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistance to specific chemicals). The precautions are to prevent the equipment from being adversely affected and to ensure that the type of protection shall be maintained.

10. The following factors are identified to have a harmful effect on catalytic elements as used in the gas sensors, KGS 701, KGS 702 and KGS 703.

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: 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 SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com

temporary and insumove the sensor with sector of the presence of poisoning or inhibition is suspected, adequate protective action for the sensor should be taken.

11. The Certification marking is shown below.

ATEX Marking



Combustible Gas Sensor KGS 701

Korea New Ceramics Co., Ltd. 11 Gyeongin-ro 364, Sosa-gu,Bucheon-si, Gyeonggi-do, 422-806 South Korea EPS 12 ATEX 1 410 U E×d IIC T6 Gb -40 ≤ Ta ≤ 55

€ 2004 € II2G S/N: xxxxxxx

IECEx Marking



Combustible Gas Sensor

Korea New Ceramics Co., Ltd. 11 Gyeongin-ro 364, Sosa-gu, Bucheon-si, Gyeonggi-do, 422-806 South Korea IECEx EPS 12.0003X E×d IIC T6 Gb -40 ≤ Ta ≤ 55

S/N: xxxxxxxx