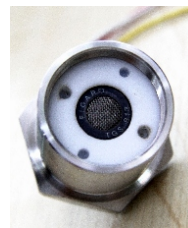




可燃气体探测器 Gas Detector



G100

- 测量原理: 催化式燃烧
- 检测气体: 可燃气体
- 检测范围: 0-100%LEL
- 测量精度: $\pm 5\%FS$
- 工作电压: DC 24V
- 功耗: $<3W$
- 响应时间: $<30s$
- 信号输出: 4-20mA
- 防爆等级: Ex ib IIB T4, Ex d IIC T6
- 防护等级: IP68
- 温度范围: $-20^{\circ}C \sim +50^{\circ}C$
- 湿度范围: 10~90%RH, 无凝露
- 压力范围: 90KPa~110KPa
- 主体材质: 铸铝
- 尺寸: 190 mm×140 mm×75 mm(长×宽×高)

- Detect Theory: Catalytic
- Detected gases: Combustible gas
- Range: 0-100%LEL
- Accuracy: $\pm 5\%FS$
- Supply Voltage: DC 24V
- Consumption: $<3W$
- Response Time: $<30s$
- Output: 4-20mA
- Explosion-proof level: Ex ib IIB T4, Ex d IIC T6
- IP Rating: IP68
- Temperature: $-20^{\circ}C \sim +50^{\circ}C$
- Humidity: 10~90%RH, non condensing
- Pressure: 90KPa~110KPa
- Material: Cast aluminium
- Dimensions: 190 mm×140 mm×75 mm(L×W×H)

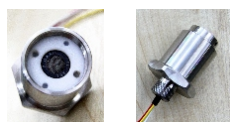
可燃气体探测器

Gas Detector

G100



G100 可燃气体探测器
Gas Detector



G100探测器特点

- 性能稳定，抗干扰，寿命长
- 灵敏可靠，高精度
- 4-20mA电流输出
- 两个电缆进线口，方便现场安装
- 独立气室结构，方便维护
- 快速更换传感器
- 防护等级IP68
- 防爆标志：本安型Ex ib II B T4
隔爆型Ex d II C T6

G100 Features

- High measurement precision , long life-span and easy operation
- Sensitive and reliable
- 4-20mA current output
- Two cable inlets, convenience of on-site installation
- Independent chamber design , convenient maintenance
- Sensor fast replacement
- Protection grade:IP68
- Explosion-proof type Ex ib II B T4, Ex d II C T6

系统简介:

G100可燃气体探测器由壳体，工业级传感器组件及电路板组成，其壳体由上盖，底座，电缆填料函组成，构成IP65防护等级和防爆等级，传感器组件由可燃气体敏感元件及防护滤网组成，与壳体之间用环氧树脂浇灌而成。G100可燃气体探测器防爆性能符合GB3836. 1-2000, GB3836. 4-2000标准规定的相关要求，其防爆标志为本安型Ex ib II B T4，隔爆型Ex d II C T6，其中该产品必须与安全栅配套组成本安防爆系统，为可使用于现场存在II A级以下的爆炸性气体混合的场所。

Introduction

G100 Gas Detector consists of shell, sensor components and PCB boards. G100 shell is consists of cover, base, cable stuffing, with IP68 protection grade and explosion-proof rating. The sensor components are consists of gas-sensitive components and protective filter composition, and there is epoxy resin between the shell.

G100 Gas Detector is past the State Quality Supervision and Inspection Center (CQST) test, explosion-proof performance, in accordance with GB3836.1-2000, GB3836. 4-2000 standard, explosion-proof mark for Ex ib II B T4, Ex d II C T6, the product must be composed of safe explosion-proof Barrier, in order to be used in the place which contains explosive gas(below the rank of II A).

相对灵敏度

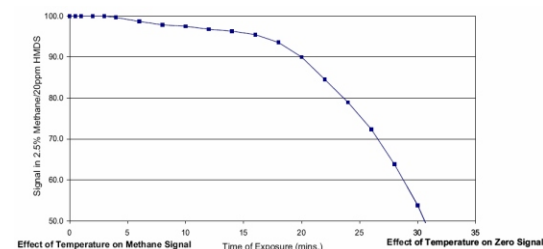
Relative Sensitivity

Gas/Vapour	Relative Sensitivity*	Gas/Vapour	Relative Sensitivity*
Methane	100	Carbon monoxide	110
Propane	60	Acetone	65
n-Butane	60	Methyl ethyl ketone	50
n-Pentane	55	Toluene	45
n-Hexane	45	Ethyl acetate	50
n-Heptane	45	Hydrogen	105
n-Octane	40	Ammonia**	125
Methanol	90	Cyclohexane	55
Ethanol	70	Leaded Petrol	55
iso-propyl alcohol	55	Unleaded petrol	55
Acetylene	80	Ethylene	90
1, 3 Butadiene	55		

*Each sensitivity has been rounded to the nearest 5%

加速寿命测试

Accelerated Life Test Diagram



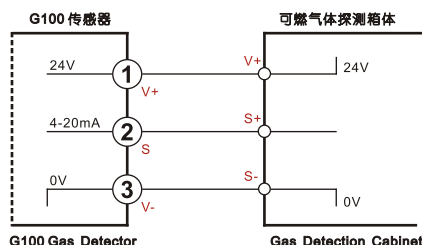
型号及适用气体

Type and Detected Gases

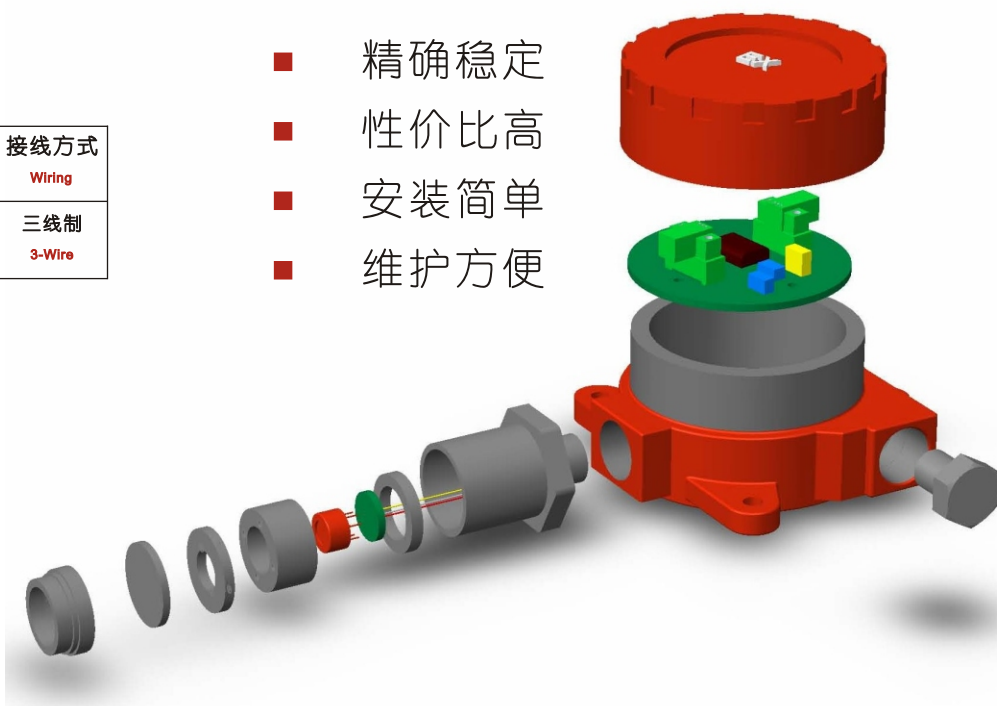
型号	所测气体	量程	检测方式	接线方式
Type	Detected gases	Range	Detect theory	Wiring
G100	可燃气体	%100LEL	催化燃烧式	三线制
G100	Comb gas	%100LEL	Catalytic	3-Wire

输出信号及接线方法

Signal output and wiring diagram



- 精确稳定
- 性价比高
- 安装简单
- 维护方便



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