

碳罐脱附压力传感器 Purging Line Pressure Sensor

产品介绍 Product Description

碳罐脱附压力传感器监测脱附管路压力，脱附管路泄漏时做出诊断。

The Purging line pressure sensor monitors the pressure of desorption pipeline, and makes diagnosis when the desorption pipeline leaks.



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Purging Line Pressure Sensor

产品特征及优势 Feature and benefits

- ◆ 来源于压力感应元件并经芯片处理后的进气绝对压力信号
Intake manifold absolute pressure output /Derived from a MEMs based sensing element
- ◆ 外观和客户接口可以与 bosch 产品兼容
Appearance and customer interface are compatible with Bosch products
- ◆ 单芯片解决方案，电路单元利用 SMT 技术贴装
Single chip solution , SMT for EMA fabrication process
- ◆ 利用钢球技术进行通气孔密封，激光打标以得到更好的追溯性
Steel ball for vent hole sealing, laser marking for better traceability
- ◆ 传感器量程 10~115kPa 或者可根据客户需求特殊定制
The sensor range is 10 ~ 115kPa or can be customized according to customer requirements

产品作用 Application

- ◆ 监测脱附管路压力，脱附管路泄漏时做出诊断
Monitor the desorption pipeline pressure and make diagnosis when the desorption pipeline leaks

操作 Operation

◆ 基本原理Basic principle:

碳罐脱附压力传感器根据传感器内部压力芯片感应脱附管路中的压力变化，将其转换成电压信号输出，供ECU在脱附管路泄露时做出诊断。

The carbon canister desorption pressure sensor senses the pressure change in the desorption pipeline according to the pressure chip inside the sensor, and converts it into voltage signal output for ECU to make diagnosis when the desorption pipeline leaks.

◆ 连接选项Connection options:

根据客户选择定制连接系统
Customized to customer choice of connection system

◆ 包装选项 Packaging Options:

可提供定制包装以满足任何需要，请联系KESENS技术部了解详情。
Custom packaging can be provided to meet any need, please contact KESENS Engineering for details.

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技术参数 Functional Characteristics

| 参数 PARAMETER | 符号 NOTE | 最小值 MIN. | 额定值 NOM. | 最大值 MAX. | 单位 UNITS |
|----------------------------------|---|----------|----------|----------|------------------|
| 工作温度 TEMPERATURE RANGE | T | -40 | | 130 | °C |
| 压力测量范围 PRESSURE RANGE | P | 10 | | 115 | kPa |
| 电源电压 SUPPLY VOLTAGE | V _{cc} | 4.5 | 5 | 5.5 | V |
| 电源电流 SUPPLY CURRENT | I _{cc} | | 8 | 10 | Ma |
| 输出负载电流 OUTPUT LOAD CURRENT | I _L | -1 | | 1 | mA |
| 负载电阻 LOAD RESISTANCE | R _{pull-up} | 5 | | 100 | kΩ |
| | R _{pull-down} | 5 | | 470 | kΩ |
| 额定输出电压 NOMINAL OUTPUT | V _{out} | 8 | | 93 | %V _{cc} |
| 输出电压上限值 UPPER CLAMPING LEVEL | V _{CL-HI} | 4.77 | 4.8 | 4.83 | V |
| 输出电压下限值 LOWER CLAMPING LEVEL | V _{CL-LO} | 0.27 | 0.3 | 0.33 | V |
| 整体精度误差 OVERALL ACCURACY ERROR | Err | | | 1.6 | kPa |
| 压力响应时间 PRESSURE RESPONSE TIME | 从 10%到 90%的最输出电 压 T _{10/90} 10% TO 90% OF THE FINAL OUTPUT VALUE | | | 1.8 | ms |

可根据需要定制电气和环境规范，详情请联系KESENS研发部。

Custom electrical and environmental specifications can be designed to meet any need, please contact KESENS design department for details.