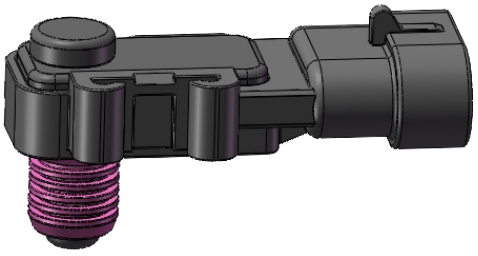
FUEL VAPOR PRESSURE SENSOR

燃油蒸汽压力传感器

产品特点 | PRODUCT FEATURES

本产品用先进的微机电原理制作，核心技术为基于压阻效应的MEMS压力传感器芯片和高性能的信号调理AISC芯片，品质优良，封装精密，运用了成熟可靠的标定、补偿和保护技术，响应速度快、可靠性高、稳定性好，是一款高性价比的传感器产品，燃油蒸汽压力传感器是实时测量燃油管内的压力，确保碳罐系统正常工作，降低排放。

This product is made with advanced micro-electromechanical principle. The core technology is MEMS pressure sensor chip based on piezoresistive effect and high-performance signal conditioning AISC chip. It has excellent quality and precision package. It uses mature and reliable calibration, compensation and protection technology to respond. Fast, reliable, and stable, it is a cost-effective sensor product.The fuel vapor pressure sensor measures the pressure inside the fuel pipe in real time, ensuring that the canister system is working properly and reducing emissions.



工作参数 | WORKING PARAMETERS

- 工作压力：1.25-3.75KPa
- 精　　度：±1%F.S（线性，迟滞性，重复性）
- 全误差带：±3%F.S. (-40℃-+125℃)
- 运行温度：-40℃-+125℃
- 存储温度：-40℃-+150℃
- 保护压力： 2倍以上工作压力
- 爆破压力： 3倍以上工作压力
- 工作介质：空气
- 使用寿命：500万次以上
- 振　　动：10g（50Hz-2000Hz）
- 防护等级：IP66
- 供电电压：5V±0.25V
- 输出电压：0.5-4.5V（范围可调）
- 供电电流：＜10mA
- 响应时间：＜10ms
- 过压电压：40VDC
- 反向电压：-40VDC
- 短路保护：有
- ESD标准：PIN针空气放电±8KV
  外壳空气放电±16KV
- EMC标准：ISO11452-5
  （512MHz-1GHz）50V/m
  （1MHz-512MHz）100V/m

- Working pressure: 1.25-3.75KPa
- Accuracy: ±1% F.S (linearity, hysteresis, repeatability)
- Full error band: ±3% F.S. (-40°C-+125°C)
- Operating temperature: -40°C-+125°C
- Storage temperature: -40°C-+150°C
- Protection pressure: over double working pressure
- Burst pressure: over triple working pressure
- Working medium: air
- Service life: more than 5 million times
- Vibration: 10g (50Hz-2000Hz)
- Protection level: Ip66
- Power supply voltage: 5V±0.25V
- Output voltage: 0.5-4.5V (range adjustable)
- Supply current: <10mA
- Response time: <10ms
- Overvoltage voltage: 40VDC
- Reverse voltage: -40VDC
- Short circuit protection: Yes
- ESD standard: PIN needle air discharge ± 8KV
  housing air discharge ±16KV
- EMC standard: ISO11452-5
  (512MHz-1GHz) 50V/m
  (1MHz-512MHz) 100V/m