

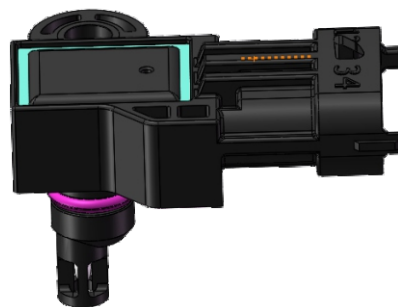
# PRESSURE INTAKE PIPE TEMPERATURE SENSOR

## 进气管温度压力传感器

### 产品功能 | 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，针对于汽车发动机进气测量有很好的测量作用。

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 that has a good measurement function for automotive engine intake measurement.



### 工作参数 | WORKING PARAMETERS

- ◇ 工作压力：0-115KPa A(汽油车用)  
0-400KPa A (柴油车用)
- ◇ 精度：±1%F.S (线性，迟滞性，重复性)
- ◇ 全误差带：±3%F.S. (-40°C-+135°C)
- ◇ 运行温度：-40°C-+135°C
- ◇ 存储温度：-40°C-+150°C
- ◇ 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)
- ◇ 电气接口：泰科368162-1
- ◇ 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: 0-115KPa A (for gasoline vehicles)  
0-400KPa A (for diesel vehicles)
- ◇ Accuracy: ±1% F.S (linearity, hysteresis, repeatability)
- ◇ Full error band: ±3% F.S. (-40°C-+135°C)
- ◇ Operating temperature: -40°C-+135°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)
- ◇ Electrical interface: TE 368162-1
- ◇ 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