



## KYTMAP-YC-1/KYTMAP-4/KYTMAP-6 Intake Manifold Pressure & Temperature Sensors

### Description

KYMAP uses German back pressure sensing element, can measure both pressure and temperature of the medium, with excellent media compatibility (can withstand corrosive H<sub>2</sub>S in natural gas), with wide working temperature, good stability and reliability to ensure reliable operation of the sensor in harsh automotive environments.

### Applications

Engine intake manifold pressure and temperature detection  
 Turbo pressure - temperature detection  
 Gas Pressure - Temperature detection  
 Auxiliary intake air quantity calculation  
 Auxiliary overheating, booster protection  
 Auxiliary highland compensation  
 Dual-fuel engine

### Features:

- ◆ Imported back pressure chip improve the anti-corrosion for weak acid (especially H<sub>2</sub>S);
- ◆ Operating temperature -40°C and 125°C
- ◆ Anti-shock, anti-vibration, Good interchangeability at site
- ◆ Working pressure and temperature output, leak-proof;
- ◆ Customized Range Available

### Specifications:

Parameter	Value	Units
Supply Voltage	5	VDC
Media	Clean non-corrosive air or liquid	—
Pressure Range	20~400(absolute) or other range by order	kPa
Performance guarantee pressure	600(absolute)	kPa
Burst Pressure	800(absolute)	kPa
Output Voltage	0.2~4.5 <sup>(1)</sup>	VDC
Error in normal temperature	±1.0	%FS
Error in working temperature range(-40°C~125°C)	±3.0	%FS
Operating Temperature	-40~125	°C
B Value of temperature sensor(B20/100)	3575	—
Resistance of temperature sensor at room temperature (20 °C)	2.5±5 %	kΩ



TMAP-4



TMAP-6



TMAP-YC-1

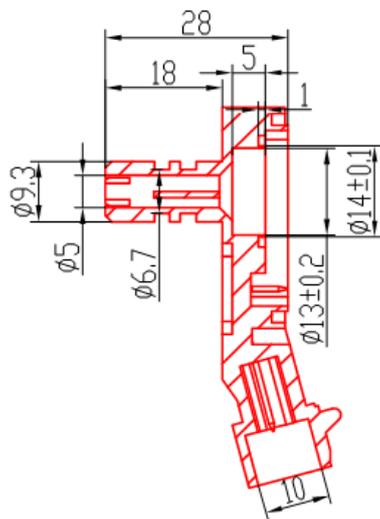


Storage Temperature	-40~125	°C
Operating Current	<20	mA
Long-term Stability	±0.5	%FS/year
Pressure response time	2.0	ms
Notes	(1)Output of pressure sensor: non-proportionall voltage output	

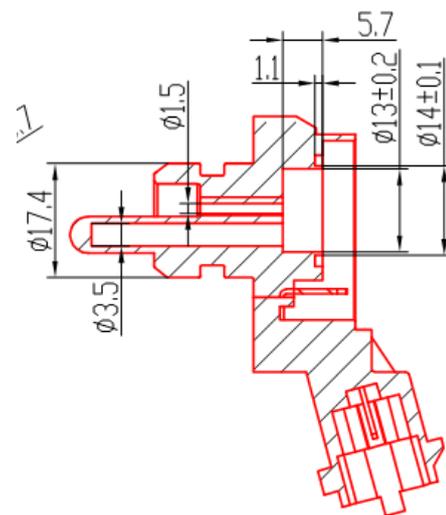
### Application Description:

Intake manifold pressure and temperature sensors measured the changes of intake manifold absolute pressure (vacuum) based on the load state of the engine, and converted it into a voltage signal, together with the speed signal delivered to the engine electronic control unit (ECU), as the basic of fuel injection volume.

### Product Diagram:



TMAP-4



TMAP-6

### Application Picture



Gross Weight: 30g

Net Weight: 28g

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