



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 H₂S 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 H₂S);
- ◆ 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 ⁽¹⁾	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

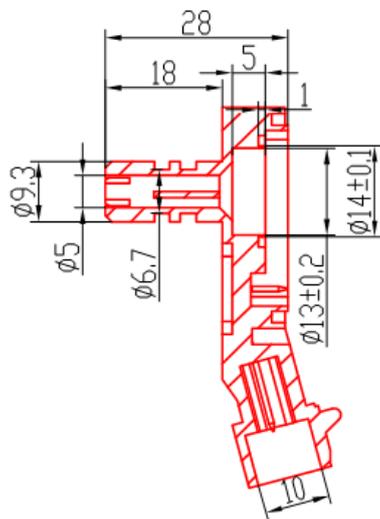


Storage Temperature	-40~125	°C
Operating Current	<20	mA
Long-term Stability	±0.5	%FS/year
Pressure response time	2.0	ms
Notes	(1)Output of pressure sensor: non-proportionall voltage output	

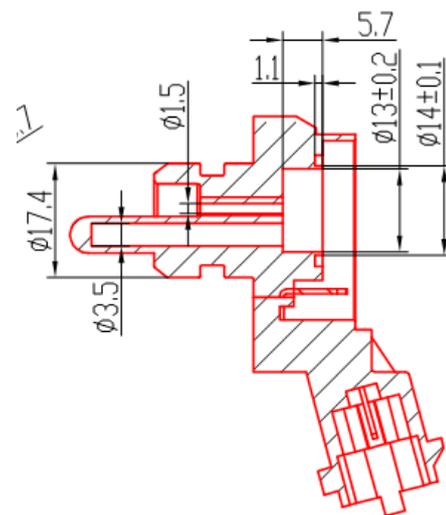
Application Description:

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

Xinhui KangYu Control Systems Engineering, Inc.

Guifeng Hightech Village, Ximen Rd., Xinhui District, Jiangmen City, Guangdong 529100, P.R. China

Tel: 86-750-6318857

Fax: 86-750-6318900

E-mail: sale@chinakangyu.com

Website: www.chinakangyu.com