



Joint Sensor Instruments (H. K. ) Ltd.  
Joint Sensor Instruments (Shenzhen) Ltd.



## Model613:Manifold Absolute Pressure Sensor (MAP)

### FEATURES



- 0.2 bar to 1.0 bar    0.2 bar to 2.0 bar  
0.2 bar to 3.0 bar
- 1 %FS Static Accuracy
- MEMS technology
- Programmable ASIC to meet customer specifications
- Low part count enhances reliability
- Amplified and temperature com
- EMI protection
- Available for turbo applications pensated

### DESCRIPTIONS

Model 613 incorporates MEMS technology and custom Application Specific Integrated Circuit (ASIC)Technology in the design. It is specifically designed for tough automotive application.

Model 613 is designed to perform in the underhood harsh environment such as temperature extremes,vibration, thermal and mechanical shock, and corrosive chemical. Typical applications include manifold absolute pressure (MAP), barometric, EGR pressure and brake boost. Please contact us for special design to meet your requirements.

### SENSOR SPECIFICATIONS

#### Electrical:

Supply Voltage	5.0±0.5 VDC
Supply Current	10 mA max
Maximum Output Current	Sink 1 mA Source 0.1 mA
Output Impedance	10 ohms max
Output Type	ratiometric
Output Voltage	0.25 to 4.85 VDC at 5VDC excitation

#### Sensor Operating Characteristics:

Range	0.2 bar to 1.0 bar 0.2 bar to 2.0 bar 0.2 bar to 3.0 bar
Proof Pressure	200%FS
Static Accuracy (%FS)	1 typ.



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### **Environmental Effects:**

Compensated Temperature Range	-40°C to +135°C
Storage Temperature Range	-50°C to +150°C

### **Mechanical:**

Media Compatibility Media Compatible with Silicon

### **APPLICATION:**

CITROEN	457403, 457405, 9639418980
FIAT	9639418980
PEUGEOT	1920 AC, 457403
RENAULT	963941898
BOSCH	0261230058

BOSCH	0261230057
CITROEN	1920AN
FIAT	9631813680, 9639418880
PEUGEOT	1920 1K
RENAULT	9631813680, 9639418880
FACRT	10.3005
HELLA	6PP 009 400-161
MEAT DORIA	82118

### **Notes:**

1. Static accuracy is the RSS of non-linearity, hysteresis, and non-repeatability
2. Please contact us for special design to meet your requirements.



