

Model 616: 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
- 1.5%FS Static Accuracy
- MEMS technology
- Programmable ASIC to meet customer specifications
- Low part count enhances reliability
- Amplified and temperature com
- EMI protection
- Combination of pressure and temperature sensor(MAP/MAT)
- —MAP sensor precision with reliable thermistor output
- —Two-in-one sensor yields cost reduction and space savings w/one fewer component, wire and connector



DESCRIPTIONS

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

The Temperature Manifold Air Pressure sensors in Model 616 provide tow separate outputs critical to air/fuel ratio optimization:

One voltage output proportional to engine intake manifold pressure

One resistance output proportional to manifold air temperature

Model 616 is designed to perform in the underhood harsh environment such as temperature extremes, vibration, thermal and mechanical shock, and corrosive chemical. Please contact us for special design to meet your requirements.

SENSOR SPECIFICATIONS

Electrical:

 $\begin{array}{lll} \text{Supply Voltage} & 5.0 \pm 0.5 \text{ VDC} \\ \text{Supply Current} & 10 \text{ mA max} \\ \text{Maximum Output Current} & \text{Sink 1 mA} \end{array}$

Source 0.1 mA

Output Impedance 10 ohms max
Output Type ratiometric

Output Voltage 0.25 to 4.85 VDC at 5VDC excitation

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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) 1.5 typ.

Temperature Measurement Accuracy ±1°C at 25°C

Environmental Effects:

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

Mechanical:

Media Compatibility Media Compatible with Silicon

APPLICATION:

FIAT 46553045, 71732447

BOSCH 0261230030 **FACET** 10.3091 MEAT DORIA 82120

FIAT 73503657,735036570

BOSCH 0281002437

MEAT&DORIA 82143

IVECO 504088431,73503657

BENZ 1571530128 MWM 9 6120 06 9 0024

OPEL 24459853,9196671,93171176

SAAB 9543901 VM MOTORI S.P.A 45962069F **VOLKSWAGEN** 2R0 906 051C

FACET 10.3082

FORD 2U1L 9F479 AA HODA JAZZ(GD)1.2 37830PWEG01 **OPEL** 1571530028 **BOSCH** 93399801

0261230099,480ED-108060 **CHERY**

FIAT 46769978 GM 93170309

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1238244 **OPEL BOSCH** 0261230042 **FACET** 10.9302

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.





