Medium Manifold Absolute Pressure/Manifold Air Temperature Sensors

Description - Delphi couples cutting-edge technology and custom Application Specific Integrated Circuit (ASIC) design with manufacturing experience to offer a wide range of pressure sensor alternatives.

Delphi's family of sensors and actuators includes medium pressure sensors that are designed to result in system savings for our customers. Both rugged and reliable, our Manifold Absolute Pressure/Manifold Air Temperature sensors provide two separate outputs critical to air/fuel ratio optimization:

- One voltage output proportional to engine intake manifold pressure
- One voltage output proportional to manifold air temperature

Designed to perform in harsh environments characterized by extreme ambient temperatures and vibration, thermal and mechanical shock, and chemical contamination, Delphi pressure sensors provide cost-effective solutions tailored to meet our customers' specific needs.

Typical Applications

- Manifold Absolute Pressure and Manifold Air Temperature

Features

- 3 psi to 15 psi; 20 kPa to 102kPa; 0.2 bar to 1 bar
- All-silicon solid-state technology
- Electronically programmable trim to customer specifications
- Temperature compensation
- Air temperature output
- EMI protection
- Solid state microelectronic technology
- MAP sensor precision with reliable thermistor output

DELPHI

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Benefits

- Two-in-one sensor yields cost reduction and space savings with one fewer component, wire and connector
- Electronic compensation for precise measurements in a variety of environments
- Reliable and robust
  - Low part count
  - Automotive grade
  - ISO 9001 and QS-9000 certified
- Mounting flexibility
- Designed for underhood environment
- Appropriate for automotive and non-automotive applications

Performance Data

Standard Calibration*

Pressure Range	
Operating	20 to 102 kPa
Maximum	300 kPa
Full Scale Accuracy	1.8%

Temperature Range	
Operating	-40°C to +105°C
Measurement Accuracy	±1°C at 25°C
Storage	-50°C to +150°C

Electrical Characteristics		
Supply Voltage	5.0 ± 0.1 V dc	
Supply Current	<10 mA dc	
Maximum Output Current	Sink	1 mA dc
	Source	0.1 mA dc
Output Impedance	<50 ohms	
Output Voltage	0.51 to 4.85 V dc	

*Custom calibrations available upon request.