

## Medium Pressure 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 use a patented, direct-mount approach designed to result in system savings for our customers. Both rugged and reliable, our medium pressure sensors provide a voltage output proportional to the gauge or absolute pressure in medium pressure systems.

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 (MAP)
- Barometric
- EGR pressure
- Brake boost



### Features

- 3 psi to 14.8 psi; 20 kPa to 102 kPa; 0.2 bar to 1.0 bar
- Patented direct mount eliminates need for bracket
- Temperature compensation
- EMI protection
- Solid state microelectronic technology
- Electronically programmable trim to customer specifications
- Available for turbo applications
- Combination pressure and temperature sensor (MAP/MAT) available
  - MAP sensor precision w/reliable thermistor output
  - Two-in-one sensor yields cost reduction and space savings w/one fewer component, wire and connector

# DELPHI

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# Medium Pressure Sensors

## Benefits

- 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	1.7%

### Temperature Range

Operating	-40°C to +105°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	0.25 to 4.85 V dc

\*Custom calibrations available upon request.

