

Turbo 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 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.

Features

- 48 psi; 333kPa; 3.3 bar; 3.3 Atm
- Patented direct mount eliminates need for bracket
- Temperature compensation
- EMI protection
- Solid state microelectronic technology
- Trim to customer specifications



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

DELPHI

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Turbo Pressure Sensors

Typical Applications

- Turbo-charged engine intake manifold pressure
- Super-charged engine intake manifold pressure
- Diesel engines

Performance Data

Standard Calibration*

Pressure Range	
Operating	40 to 333 kPa
Maximum	700 kPa
Full Scale Accuracy	1% to 5%

Temperature Range	
Operating	-40°C to +125°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	<10 ohms
Output Voltage	0.2 to 4.9 V dc

*Custom calibrations available upon request.

