Fuel supply, oil circuit, transmission

Medium-pressure sensor

PRODUCT BENEFITS
- Highly precise measurement of fuel and oil pressure
- Integrated temperature sensor optional

1 Temperature sensor (optional)
2 Screwed socket
3 Connector housing
**precise measurement**

for efficient management of fuel/oil supply in engine and transmission applications

### TASK

Bosch’s medium-pressure sensor ensures rapid and highly precise measurement of fuel and oil pressure in every kind of combustion engine (gasoline, diesel, CNG, LPG) and transmission. This measurement is used to control the amount of fuel or oil supplied by the pump. An integrated temperature sensor is optional.

### FUNCTION

The sensor measures pressure by using a resistance bridge to evaluate the distortion of a silicon membrane. It measures temperature with an NTC (negative temperature coefficient) resistor connected to the evaluation element in the sensor. Pressure and temperature readings can be transmitted as analog or digital signals (SENT).

### VARIANTS

The sensor can be equipped with a range of hydraulic interfaces and connectors.

### TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Pressure range</td>
<td>5 to 50 bar (absolute or relative)</td>
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<tr>
<td>Accuracy</td>
<td>1.5% FS</td>
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<tr>
<td>Temperature measurement range</td>
<td>-40 to +140°C</td>
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<tr>
<td>Robustness</td>
<td>-40 to +140°C strong resistance to engine conditions</td>
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