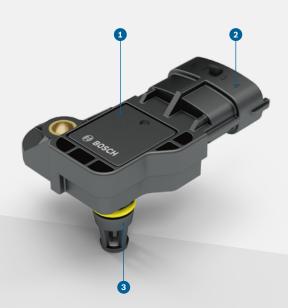
# Fuel injection and air management

Intake manifold and boost-pressure sensor with temperature sensor DS-G3-TF





## PRODUCT BENEFITS

- Precise control of the fuel amount
- Minimized emissions
- Excellent media and temperature robustness
- ► Developed and certified for natural-gas engines

- Covered electronics compartment
- 2 Cable harness connector
- 3 Pressure socket and temperature sensor









# minimal emissions

due to optimum air-fuel mixture

# TASK

The intake manifold and boost-pressure sensor with integrated temperature sensor enables a fast and precise measurement of intake air pressure and temperature, at natural aspirated and turbocharged internal combustion engines. The sensor so supports the precise control of fuel amount and minimized emissions.

### **FUNCTION**

The sensor measures pressure by using a resistance bridge to evaluate the distortion of a silicon membrane. A gel covering the membrane protects the sensor against deposits. Temperature is measured with an NTC (negative temperature coefficient) resistor. The signals for pressure and temperature are transmitted to the control unit over two lines.

## **VARIANTS**

The sensor is available in various housings and for different pressure ranges.

# optimum performance

due to precise control of fuel amount

# TECHNICAL CHARACTERISTICS

Temperature range	-40°C to +120°C
Pressure measurement range	2050 – 350450 kPa
Max. operating pressure	500 kPa
Operating voltage	5V

- Electronics compartment
- 2 O ring
- (3) NTC (optional)
- 4 Cable harness connector

