Exhaust-gas treatment

Particulate matter sensor EGS-PM

**PRODUCT BENEFITS**

- Contribution to achieve emissions limits and on-board diagnostics regulations
- Monitoring of the diesel particulate filter (DPF) function
- Systems expertise covering diagnostics function and sensor
- Communication with the engine control unit via CAN interface

1. Sensor control unit
2. Wiring harness
3. Sensor probe
4. Retaining screw
**dependable technology**

of the particulate matter sensor ensures reliable monitoring of the diesel particulate filter, supporting the reduction of particulate emissions by up to 99%.

**supports compliance**

with emissions limits due to Bosch’s extensive know-how as the pioneer of the particulate matter sensor.

**TASK**

Precise and up-to-date data from the exhaust system forms the basis for all functions – from mixture formation to exhaust-gas treatment. Specialized sensors are being developed for these functions. Emissions legislation in particular means that additional sensors are required, including the particulate matter sensor. This is used to monitor the performance of the diesel particulate filter (DPF), thus helping to reduce particulate emissions by up to 99 percent. The particulate matter sensor is installed downstream of the DPF and can be mounted easily and quickly by means of a retaining screw.

**FUNCTION**

The operating principle of the particulate matter sensor is based on the measurement of resistance. Soot particulates are deposited on an electrode structure and form conductive soot paths between the electrodes. Before each measurement phase, the sensor element is regenerated by heating in order to ensure it is in a predefined state at the start of the measurement process. The DPF diagnostic software then analyzes the DPF performance on the basis of the measured current.