# **Exhaust gas treatment**

## Lambda sensor





### **Product benefits**

- ► Highly robust signal and fast sensor readiness
- ► Strong functional reliability, robust design
- ► High temperature resistance

## **Vehicle segments**





- 1 Connector
- 2 Sensing unit
- 3 Thread
- Hexagon
- 5 Cable protection
- 6 Cable

# reduced emissions

1,030°C

Cleaner cold and warm engine starts due to **fast sensor** readiness and a highly robust signal.

The lambda sensor works **reliably for max. 250 h** at this temperature.

**Task** By measuring the oxygen content in the exhaust gas, the lambda sensor provides the ECU with relevant information for controlling the air/fuel ratio in the combustion chamber.

**Function** The planar switching-type lambda sensor reacts to an exhaust gas transition from lean to rich (or rich to lean) with an immediate output signal jump. The goal is to detect the switching point at lambda = 1, the so-called stoichiometric point. Precisely adjusting the stoichiometric point enables the catalytic converter to work at the highest level of efficiency. The result is reliable adherence to the strictest exhaust gas and diagnostic regulations.

### **Technical characteristics**

Technology	Planar sensor element with integrated central heater
Peak temperature robustness	Up to 1,030°C (250h)
Permanent operating temperature	930°C
Resistance to environmental Influences	Vibration, water, salt, oil; totally submersible
Application-specific variants	Yes