

# EXHAUST GAS TEMPERATURE SENSOR



## ITS FUNCTION

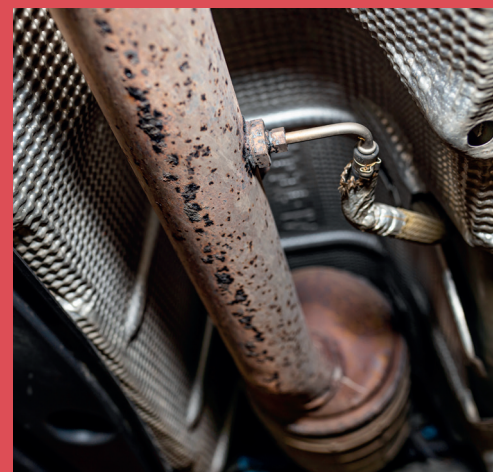


The exhaust temperature sensor is a device used in vehicles **to measure the temperature of exhaust gases**. It plays an essential role in regulating the operation of exhaust gas after-treatment systems. It minimises emissions, protects engine components and optimises performance.

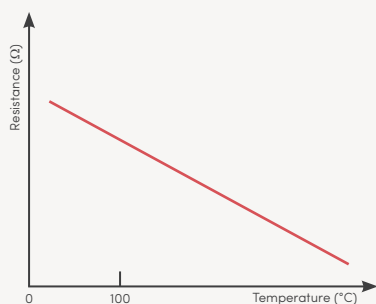
## GOOD TO KNOW

The exhaust temperature sensor can be **located in various places depending on its role**:

- **Before the turbo:** protects against overheating by monitoring incoming gases.
- **After the turbo:** optimises cooling and prevents overheating.
- **Before/after the catalytic converter or DPF:** assesses the efficiency of the gas post-treatment.
- **In the SCR system:** ensures optimum conditions for NOx reduction.



## ILLUSTRATION



How NTC (Negative Temperature Coefficient) technology works: as the temperature rises, the value of the resistor decreases. The higher the temperature, the lower the resistance.



### TECHNICAL HOTLINE

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## TECHNOLOGIES

Temperature sensors use **two main technologies**: thermistors (NTC or PTC) and thermocouples.

In most modern vehicles, NTC thermistors are the most commonly used because of **their affordability, accuracy over the relevant temperature range and fast response**.