



ITS FUNCTION



The NOx sensor measures the concentration of nitrogen oxides (NO and NOx) in exhaust gases in real time. These gases are major pollutants produced by internal combustion engines, especially at high temperatures. The data collected by the sensor is transmitted to the ECU, which then adjusts the pollution control system (by injecting AdBlue®) to reduce NOx emissions.

A vehicle may have one or more NOx sensors installed in the exhaust system: upstream or downstream of the SCR catalyst, dedicated to treating NOx.

GOOD TO KNOW

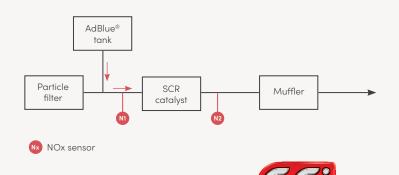
The NOx sensor interacts with various systems, such as the SCR (Selective Catalytic Reductive) catalyst. The NOx sensor is mainly used in vehicles fitted with SCR systems, into which a reducing agent (AdBlue®) is injected to convert NOx into harmless nitrogen (N2) and water (H,O).

In some vehicles, it works in conjunction with the particulate filter (DPF), but also the SCR catalyst, to ensure optimum reduction in

The NOx sensor optimises exhaust gas treatment in real time, guaranteeing compliance with Euro 6+ standards.



ILLUSTRATION



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SERVICE



TECHNOLOGIES

The NOx sensor uses the electrochemical operating principle.

Gases enter the diffusion chamber where an electrode reduces the nitrogen oxides. They then pass into the measurement chamber where an electrode evaluates the current generated by the electrochemical **reaction**. This current is proportional to the quantity of NOx present in the gases.