



# PRODUCT INFORMATION

## AIR QUALITY SENSORS

- Guaranteed HELLA craftsmanship
- Detect pollutants such as carbon monoxide or unburnt hydrocarbons and forward information to the control unit of the vehicle air conditioning system for further processing
- Vehicle air conditioning system uses the data from the air quality sensor to independently and optimally control various parameters, such as interior temperature, the position of the recirculation flap, or the fan speed
- Designed to meet or exceed factory standards

## PRODUCT FEATURES

Air quality sensors detect pollutants such as carbon monoxide or unburnt hydrocarbons and forward information to the control unit of the vehicle air conditioning system for further processing. The vehicle air conditioning system can use the data from the air quality sensor to independently and optimally control various parameters, such as interior temperature, the position of the recirculation flap, or the fan speed.

### Function:

- Sensing: The sensor, often near the windshield's fresh air intake, continuously samples outside air.
- Analysis: It uses technologies like laser scattering (for particles) or MOS sensors (for gases) to measure pollutant levels.
- Decision: If levels exceed a set threshold, it sends a signal to the vehicle's control unit.
- Action: The system activates air recirculation and may boost cabin filtration, keeping the outside contaminants out.

### Key features:

- Pollutant Detection: Identifies gases (Carbon Monoxide, Hydrocarbons, Nitrogen Oxides) and particulate matter (PM2.5) in the external air.
- Automatic Recirculation: When pollutants are detected, it tells the A/C system to automatically close the fresh air flap and start recirculating cabin air.
- System Control: Provides data to the climate control unit to manage recirculation, fan speed, and air purification.
- Health & Comfort: Protects occupants from smog, exhaust fumes, and allergens, creating a cleaner, safer interior environment.

# AIR QUALITY SENSORS

Product features, specifications and availability are subject to change without notice.

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