

EXHAUST GAS PRESSURE SENSOR

Responsible for measuring the pressure difference in exhaust gases, between the inlet and outlet of the particulate filter, or the atmospheric pressure. The Differential Pressure Sensor is an integral part of the anti-pollution system in diesel engines to comply with the European emission standards.

There are two systems:

- Particulate filter systems without additive (DPF) Combustion at 600° C Particulate filter systems with additive (FAP) Slow combustion at 300-350° C



ECTROLYSIS

Filter Inlet Pressure

Filter Outlet Pressure

Terminals Nickel-coated. More connectivity, less corrosion.

Sensor Element OEM production. Customizable.

Body In-house design and manufacturing with high-performance materials (PBT and PPS). High quality of Coating, Plating, and Sealing materials.

Pressure Chambers (Outlet and Inlet) Sealed with epoxy. Fully watertight

Bonding Made of aluminum, enhancing connectivity, mechanical strength, and stability.

Electronic Circuit Free from ECU interference. Customizable.

Die Protector Prevents damage from impacts or vibrations.

Silicone Gel Provides mechanical and chemical protection for the circuit against external agents

Ceramic Plate High resistance, dissipates temperature effectively.





References



Applications

+8k

VIO +44M



Benefits of Replacement

- · Improved emission control
- · Extends the life of the Particulate Filter



Symptoms of Malfunction

- Cyclic filter regenerations when unnecessary
- · Loss of power if the sensor fails to correctly detect the saturation level of the filter
- · Illumination of the particulate filter warning light and flashing of the preheating indicator light
- Shortened filter lifespan due to improper regeneration timing

Causes of Failure

- · Deterioration of tubes (breakage, porosity, cracking...)
- · Deterioration of connection cables or connector
- · Sensor element deterioration causing incorrect pressure readings
- Sensor leakage issues
- · Deterioration of the bond between tubes and sensor or the particulate filter



