

MASS AIR FLOW SENSOR



ITS FUNCTION



The mass air flow sensor **measures the amount of air drawn into the engine and transmits this information to the engine control unit (ECU)**. This data is essential **for adjusting fuel injection and ensuring an optimum air/fuel mixture**, thereby ensuring efficient combustion, optimising engine performance and reducing pollutant emissions and fuel consumption.

GOOD TO KNOW

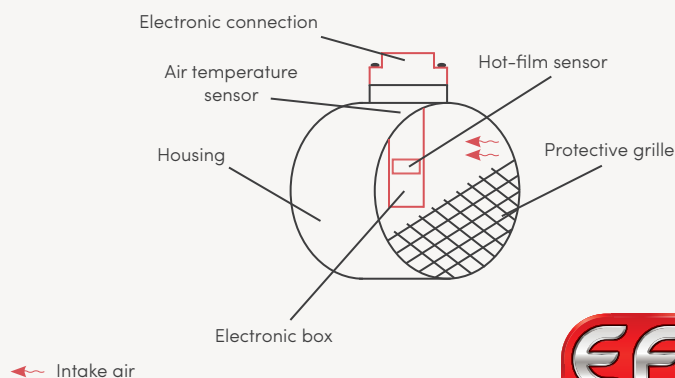
The air flow meter is generally **installed on the air intake hose, between the air filter and the intake manifold**. This position enables the precise quantity of air entering the engine to be sensed before it is mixed with the fuel.

It is the **combination of 2 sensors** that transmits the necessary information to the ECU:

- A flow sensor (hot wire or hot film).
- An air temperature sensor.



ILLUSTRATION



TECHNOLOGIES

There are **three different technologies** on the market: hot wire, hot film and mechanical shutter.

Hot-film technology is the most dominant on the market, due to **its optimum performance (reliability and increased precision) and longevity**.



TECHNICAL HOTLINE

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