

More than just hot air: HFM hot-film air-mass meters

Modern Bosch technologies for workshops: hot-film air-mass meters for the measurement of air mass, temperature, humidity and pressure



BOSCH QUALITY – FIRST CHOICE

Bosch air-mass meters are first choice for numerous vehicles when it comes to original equipment. Perfectly geared to compliance with current emission standards, they are particularly powerful and reliable while featuring a long service life. Their robust design and high-quality materials make them particularly resilient and resistant to deformations, tear and cracks. As a Bosch spare part, they are subject to the same functional and quality tests as OE parts. Only genuine parts are perfectly geared to the individual types of engines.

AIR-MASS METERS HAVE MUCH MORE TO OFFER

For efficient fuel combustion, digital air-mass meters determine the air mass of the intake air and provide the measured values to the engine control unit. But

even the interior housing design is particularly sophisticated. To prevent air swirls which could affect the measurement, aerospace engineers created a specific aerodynamic design. However, modern air-mass meters don't just meter the air mass as their name would suggest. Equipped with appropriate sensors, they have turned into "small weather stations" also measuring temperature, humidity and pressures. If a car drives downhill through a tunnel, for instance, it will take in warmer air with different density. These factors also affect the combustion behavior. In such a situation, the precise measurement via air-mass meters helps saving fuel.



Did you know?

200 km/h

(hurricane strength) or still air – even under extreme conditions hot-film air-mass meters provide accurate values.



Workshop tip

Replace air-filter insert when replacing air-mass meters!

Air filters clean the intake air thus protecting engine components downstream against dirt and damages. Hot-film air-mass meters depend on such cleaned air.

