

250 kPa External MAP Sensor



Image 1: 250 kPa MAP Sensor

- Pressure range: 10 – 260 kPa
- Anodized aluminum pin
- Linear output

General

Manifold Absolute Pressure (MAP) sensors are used to measure the pressure in the intake manifold. Since this pressure is often less than atmospheric pressure, the MAP sensor uses a vacuum chamber to perform absolute pressure measurements.

The absolute pressure in the case of an aspirated engine shall be at most atmospheric pressure (approximately 101 kPa). The 250 kPa MAP sensor enables measurements on supercharged motors. The measured pressure values in the intake manifold are sent to the ECU and enable the mass of air entering the combustion chamber to be calculated.

Technical Specifications

Electrical characteristics

5 V voltage supply

Linear output

Pressure range: 10 – 260 kPa

Mechanical characteristics

Temperature range: -40 up to 125°C

Dimensions: 15 x 25 x 50 mm

Weight: 50g

Output Response

Voltage	Pressure
0,0 V	10 kPa
5,0 V	260 kPa

Pinout

Color	Function
Red	5 V
Black	Sensor GND
White	Output