

# 700 kPa External MAP Sensor



Image 1: 700 kPa MAP Sensor

- Pressure range: 15 – 700 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 700 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: 15 – 700 kPa

### Mechanical characteristics

Temperature range: -40 up to 125°C

Dimensions: 15 x 25 x 50 mm

Weight: 50g

#### Output Response

Voltage	Pressure
0,195 V	0 kPa
4,745 V	700 kPa

#### Pinout

Color	Function
Red	5 V
Black	Sensor_GND
White	Output