



“Air mass too high or too low”

Frequently this fault is not due to the air mass sensor

Vehicle	Product: air mass sensor
all vehicles provided with exhaust gas recirculation and PIERBURG air mass sensors	PIERBURG No. 7.18221.51.0/.58.0; 7.22184.04.034.0/.50.0; 7.22684.07.010.0; 7.22701.04.0/.05.0; 7.28342.06.0/.07.0



Possible complaints:

- “P0102 air mass too low”
- “P0103 air mass too high”

Whenever such error messages occur, a malfunction in the air mass sensor is often suspected.

However, the malfunction can also be in the EGR system, for instance if the EGR valve is stuck either when open or closed.

Potential fault:

The EGR valve (3) is permanently open

The amount of returned exhaust gas (7) is much higher than required.

As a result, less fresh air (5) arrives at the cylinders.

The air mass sensor measures less air than calculated by the engine control unit (6).

Potential fault:

The EGR valve (3) remains closed

No or only very little exhaust gas is returned (7).

As a result, more fresh air (5) arrives at the cylinders.

The air mass sensor measures more air than calculated by the engine control unit (6).

Remedy:

Check EGR valve and replace if necessary.

