

Title (en)

Process and device for monitoring the operation of the heater of an oxygen sensor.

Title (de)

Verfahren und Vorrichtung zur Überwachung der Funktionsfähigkeit einer Sauerstoffmesssonden-Heizung.

Title (fr)

Procédé et dispositif pour vérifier la capacité de fonctionnement du chauffage d'une sonde à oxygène.

Publication

EP 0529302 B1 19950329 (DE)

Application

EP 92112450 A 19920721

Priority

DE 4128385 A 19910827

Abstract (en)

[origin: EP0529302A1] The invention relates to a process and device for monitoring the operativeness of the heater of an oxygen sensor which is arranged in the exhaust gas channel of an internal combustion engine. The function principle of the invention is based on the fact that the supply voltage of the heater of the sensor drops when loaded with the electrical resistance of the heating element, the difference in voltage depending on the size of the resistance and thus at least the three states of heating/normal operation, disconnected state, short-circuit, can be differentiated. The operating state of the heater of the sensor which is determined in this way is indicated to the driver by actuating an appropriate monitoring device and/or is possibly stored in an error memory. The device according to the invention can be realised by a computer or in a compact design and is thus suitable for use in a central control device. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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