

Title (en)
METHOD AND DIAGNOSTIC DEVICE FOR DIAGNOSING A HEATABLE EXHAUST GAS PROBE OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VERFAHREN UND DIAGNOSEVORRICHTUNG ZUR DIAGNOSE EINER BEHEIZBAREN ABGASSONDE EINER BRENNKRAFTMASCHINE

Title (fr)
PROCÉDÉ ET DISPOSITIF DE DIAGNOSTIC PERMETTANT LE DIAGNOSTIC D'UNE SONDÉ DE GAZ D'ÉCHAPPEMENT CHAUFFANTE D'UN MOTEUR À COMBUSTION INTERNE

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Abstract (en)
[origin: WO2011000853A1] The invention relates to a method (71) for diagnosing a heatable exhaust gas probe (11) of an internal combustion engine, wherein a predetermined temporally varying or constant voltage (U1, U2) or a predetermined temporally varying or constant current (I1, I2) is generated by means of a voltage source (41, 51), the voltage (U1, U2) or the current (I1, I2) is applied to terminals (APE, RT, I PN, RE, ALE, I PE, 37) of the exhaust gas probe (11), a current (I1, I2) that flows through the voltage source or a voltage (U1, U2) that is applied to the voltage source when a voltage (U1, U2) or a current (I1, I2) is applied is detected, and the current (I1, I2) or the voltage (U1, U2) is evaluated for diagnosing the exhaust gas probe (11). In order to provide a method (71) for diagnosing the exhaust gas probe (71), which allows a reliable and accurate diagnosis of the exhaust gas probe (71) and permits information to be derived about the type of error potentially present in the exhaust gas probe (71), according to the invention the method (71) is carried out independently of an open and/or closed loop control unit of the internal combustion engine, wherein an operating temperature of the exhaust gas probe (71) is adjusted to a predetermined temperature value by way of a control element (59) that is separate from the open and/or closed loop control unit.

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