

Title (en)

METHOD FOR DETERMINING NOX CONCENTRATION

Title (de)

VERFAHREN ZUR BESTIMMUNG DER NO_x-KONZENTRATION

Title (fr)

PROCEDE DE DETERMINATION DE LA CONCENTRATION EN NOX

Publication

EP 1232391 A2 20020821 (DE)

Application

EP 00989790 A 20001122

Priority

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Abstract (en)

[origin: WO0138864A2] The invention relates to the measurement of the NO_x concentration in the exhaust gas of an internal combustion engine (20), whereby a thick-layer measurement sensor (24), comprising two measurement cells is employed. The 1/ lambda value of the exhaust gas is determined from the pumped oxygen ion stream flowing into the first measuring cell, for example, by means of a characteristic field and from this value, for example, by means of a characteristic curve obtained previously in a calibration determination, a measurement error is determined, with which the measured No_x concentration may be corrected. The basis of the invention is the knowledge that the measured error depends on the air ratio in the exhaust gas. A complicated division may be avoided in the correction by expressing the above through the 1/ lambda value.

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