

Title (en)

METHOD AND DEVICE FOR THE DYNAMIC MONITORING OF A BROADBAND LAMBDA PROBE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DYNAMIKÜBERWACHUNG EINER BREITBAND-LAMBDA-SONDE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA SURVEILLANCE DYNAMIQUE D'UNE SONDE LAMBDA À LARGE BANDE

Publication

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Application

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Abstract (en)

[origin: WO2010009964A1] The invention relates to a method for monitoring dynamic characteristics of a broadband lambda probe (25), wherein a measured lambda signal corresponding to an oxygen concentration in the exhaust gas of an internal combustion engine (1) is determined using a broadband lambda probe (25), wherein an observer producing a modeled lambda signal from input variables is associated with the internal combustion engine (1), and wherein an estimation error signal is formed from the difference of the modeled lambda signal and the measured lambda signal or from the difference of signals derived therefrom as an input variable of a controller (14) connected upstream of a model (15) in the observer (10). The problem of the invention is solved by a measure being determined for the dynamic characteristics of the broadband lambda probe (25) from an evaluation of the estimation error signal or of a variable derived therefrom, and by this measure being compared to predefined limits in order to evaluate the dynamic characteristics of the broadband lambda probe (25).

IPC 8 full level

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