

Title (en)

METHOD AND DEVICE FOR CONTROL PATH MODIFICATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REGELSTRECKENMODIFIKATION

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MODIFICATION D'UN SYSTÈME ASSERVI

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Application

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Abstract (en)

[origin: WO2013037551A1] The invention relates to a method for the control path modification of a lambda control system, which is connected on the input side to an exhaust gas probe, and wherein a dynamic behavior and/or dead time behavior that varies as a result of the probe construction, of a manufacturing tolerance, of a variable probe temperature, or of aging is taken into consideration and the control behavior of the lambda control system is adapted accordingly. According to the invention, it is provided here that by means of a purely software-based adaptation, the control behavior of the lambda control system is adapted to the design of different exhaust gas probes and the dynamic characteristic thereof. The invention further relates to a corresponding device for carrying out the method. Using the method and the device for carrying out the method, different commercially available exhaust gas probes can be operated with the same control apparatus hardware. The different dynamic characteristics of the exhaust gas probes are reproduced here using different adaptable feedbacks. This is particularly advantageous in terms of a standardized hardware platform in engine control apparatuses for combustion engines and thus with a view to the costs.

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