Title (en)

AIR MASS FLOW METER

Title (de)

LUFTMASSENMESSER

Title (fr)

DISPOSITIF DE MESURE DE MASSE D'AIR

Publication

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Application

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Abstract (en)

[origin: WO2015022156A1] The invention relates to an air mass flow meter, comprising a sensor element for detecting an air mass flow and for producing a signal and comprising an electronic circuit for processing the signal from the sensor element, wherein the sensor element produces a non-linear signal characteristic. In order to specify a rapid air mass flow meter that has as small an error as possible in the processing of the signal, the electronic circuit (7) first has an element (2) for converting the non-linear signal characteristic (9) from the sensor element (1) into a correcting signal characteristic (10) that is non-linear at least in some segments, and the circuit then has a filter element (3), a conversion element (4) for converting the correcting signal characteristic (10) which is non-linear at least in some segments into a non-linear signal characteristic (9), and a relay element (5) for relaying the signals (S) detected by the sensor element (1) and processed by the linearization element (2), the filter element (3), and the conversion element (4).

IPC 8 full level

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CPC (source: EP US)

G01F 1/6845 (2013.01 - EP US); **G01F 1/688** (2013.01 - US); **G01F 1/696** (2013.01 - US); **G01F 1/6965** (2013.01 - EP US); **G01F 25/10** (2022.01 - EP US); F02D 41/187 (2013.01 - US); G01F 1/684 (2013.01 - US); G01F 1/6842 (2013.01 - US); G01F 1/698 (2013.01 - US); G01F 5/00 (2013.01 - US)

Citation (search report)

See references of WO 2015022156A1

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