Title (en)

CORIOLIS MASS FLOW METER

Title (de)

CORIOLIS-MASSENDURCHFLUSSMESSGERÄT

Title (fr)

DÉBITMÈTRE MASSIQUE À EFFET CORIOLIS

Publication

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Application

EP 18804349 A 20181126

Priority

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Abstract (en)

[origin: WO2019110353A1] The invention relates to a coriolis mass flow meter, comprising: a housing body (10), which has a flow inlet (31) and a flow outlet (32) for a fluid medium; two measurement tubes (23, 24), which are spaced apart from each other and are fastened to the housing body (10) and connect the flow inlet (31) and the flow outlet (32) to each other; at least one electrically controllable vibration exciter (42, 45) for each measurement tube (23, 24), the vibration exciter (42, 45) being designed to cause the measurement tube (23, 24) to vibrate; and at least two electrically controllable vibration sensors (41, 43, 44, 46), the vibration sensors (41, 43, 44, 46) being designed to sense the vibration of at least one of the two measurement tubes (23, 24). The vibration exciter (42, 45) and the vibration sensors (41, 43, 44, 46) are spatially fixedly fastened to the housing body (10) between the two measurement tubes (23, 24) and are designed as electromagnetic coils (1, 2, 3, 4, 5, 6). Each coil (1, 2, 3, 4, 5, 6) interacts with a permanent magnet (11, 12, 13, 14, 15, 16) fastened to one of the measurement tubes (23, 24). The permanent magnets (11, 12, 13; 14, 15, 16) are oriented in such a way that the permanent magnets (11, 12, 13; 14, 15, 16) attract each other.

IPC 8 full level

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Citation (search report)

See references of WO 2019110353A1

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