

Title (en)

METHOD FOR REGULATING A THERMAL OR CALORIMETRIC FLOWMETER

Title (de)

VERFAHREN ZUR REGELUNG EINES THERMISCHEN BZW. KALORIMETRISCHEN DURCHFLUSSMESSGERÄTS

Title (fr)

PROCEDE DE REGLAGE D'UN APPAREIL DE MESURE THERMIQUE OU CALORIMETRIQUE DE DEBIT

Publication

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Application

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Abstract (en)

[origin: WO2006074850A2] The invention relates to a method for regulating a thermal or calorimetric flowmeter (1) which determines and/or monitors the flow rate of a measured medium (3) flowing through a pipe (2) or measuring tube (2) in a process by means of two temperature sensors (11, 12). The actual temperature ($T_{_i}$) of the measured medium (3) at a certain point in time ($t_{_i}$) is determined via a first temperature sensor (12) while a defined heating power which is calculated in such a way that a given difference in temperature ($T_{_{target}}$) occurs between the two temperature sensors (11, 12) is fed to a second temperature sensor, and the heating power ($Q_{_{i+1}}$) fed to the heatable temperature sensor at a subsequent point in time ($t_{_{i+1}}$) is determined in case of a deviation ($T_{_{target}} - T_{_i}$) of the actual difference in temperature $T_{_i}$ measured in the actual state from the difference in temperature ($T_{_{target}}$) given for the setpoint state, said heating power ($Q_{_{i+1}}$) being determined taking into account the physical conditions in the process, which are reflected in a time constant (t).

IPC 8 full level

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