

Title (en)

MAGNETO-INDUCTIVE FLOWMETER FOR FLOW MEDIA

Title (de)

MAGNETISCH-INDUKTIVES DURCHFLUSSMESSGERÄT FÜR STRÖMENDE MEDIEN

Title (fr)

APPAREIL MAGNETO-INDUCTIF DE MESURE DU DEBIT DE MILIEUX EN ECOULEMENT

Publication

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Application

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Abstract (en)

[origin: DE19713751A1] A magneto-inductive flowmeter for flow media has a measurement pipe (1), an electromagnet (2) for generating a magnetic field at least substantially perpendicular to the measurement pipe axis, at least two measurement electrodes (3, 4) arranged along a connection line which extends at least substantially perpendicular to the measurement pipe axis and to the magnetic field orientation, a current source (5) for supplying direct current to the electromagnet (2) and an evaluation circuit (6) for evaluating the measurement voltages from the measurement electrodes (3, 4) and generating a flow signal. According to the invention, a magneto-inductive flow meter for flow media is characterised in that at least one magnetic field sensor (7, 8) is arranged in the magnetic field of the electromagnet (2) and in that the evaluation circuit (6) has a processing circuit (9) connected to the magnetic field sensor (7, 8).

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