

Title (en)
FLOW VELOCITY METER

Title (de)
STRÖMUNGSGESCHWINDIGKEITS-MESSER

Title (fr)
VISCOSIMETRE DE FLUX

Publication
EP 1342057 A1 20030910 (EN)

Application
EP 01983063 A 20011115

Priority
• SE 0102541 W 20011115
• SE 0004219 A 20001115

Abstract (en)
[origin: WO0240948A1] In a flow velocity meter of ultrasonic type sound signals are transmitted in a ring-around-process between two ultrasonic transmitters/detectors (G1, G2) placed opposite each other, having their transmission /receiving direction located in an angle to the flow direction (3) of a fluid. In the transmitting operation the polarities of the transmitted sound pulses are changed to that the currently active one of the transmitters/ receivers is controlled to transmit the sound signals with positive and negative polarities chosen to reduce the influence of sound signals reflected by the transmitters/receivers on the direct sound signals that are received by the other one of the transmitters/receivers. The transmission of the signals is activated by a pulse transmission unit (27) so that for example each sound signal contains two pulses transmitted successively. The polarities are controlled by a multiplexer (13) that receives a control signal from a control unit (25). A polarity change is also made for received signals by means of another multiplexer (11) so that the received signals always have the same polarity. It facilitates the detection of a particular position in the received signals such as a suitably chosen zero passing using a zero point detector (21).

IPC 1-7
G01F 1/66; **G01P 5/24**

IPC 8 full level
G01F 1/66 (2006.01); **G01P 5/24** (2006.01)

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