

Title (en)

ULTRASONIC FLOW SENSOR FOR USE IN A FLUID MEDIUM

Title (de)

ULTRASCHALLSTRÖMUNGSSENSOR ZUM EINSATZ IN EINEM FLUIDEN MEDIUM

Title (fr)

DÉBITMÈTRE À ULTRASONS POUR UNE UTILISATION DANS UN MILIEU FLUIDE

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Application

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Priority

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Abstract (en)

[origin: WO2011054595A1] The invention relates to an ultrasonic flow sensor (110) for use in a fluid medium. The ultrasonic flow sensor (110) comprises at least two ultrasonic converters (120, 122) arranged longitudinally to a flow, offset to one another in a flow tube (112) of the fluid medium. The ultrasonic flow sensor (110) further comprises a reflection surface (126), wherein the ultrasonic converters (120, 122) are configured to exchange ultrasonic signals via simple reflection on the reflection surface (126). In addition, according to the invention a deflection device (132) is provided between the ultrasonic converters (120, 122) which is configured to substantially suppress parasitic ultrasonic signals which are reflected from the reflection surface (126) and which meet the deflection device (132) by means of deflection away from the ultrasonic converters (120, 122).

IPC 8 full level

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