

Title (en)

SENSOR DEVICE AND FLUID FLOW-RATE MEASURING ASSEMBLY HAVING A SENSOR DEVICE OF THIS TYPE

Title (de)

SENSORVORRICHTUNG UND FLUIDDURCHFLUSS-MESSANORDNUNG MIT EINER DERARTIGEN SENSORVORRICHTUNG

Title (fr)

DISPOSITIF DE DÉTECTION ET SYSTÈME DE MESURE DU DÉBIT DE FLUIDE POURVU D'UN TEL DISPOSITIF DE DÉTECTION

Publication

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Application

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Abstract (en)

[origin: WO2020254258A1] The invention relates to a sensor device (12), comprising: an excitation magnet (20) for producing an alternating excitation magnetic field; an energy generator (22) having a pulse wire module (24), in which electrical energy pulses can be produced by means of the alternating excitation magnetic field; at least one sensor element (32, 34) for sensing a physical variable and for providing a sensor signal; an evaluation unit (36) for evaluating the at least one sensor signal; and a radio data interface (38), which is connected to the evaluation unit by means of a data connection, wherein the at least one sensor element (32, 34) and the evaluation unit (36) are each electrically connected to the energy generator (22) and can be supplied with electrical energy by the energy generator. The invention also relates to a fluid flow-rate measuring assembly (10) having a sensor device (12) of this type. The sensor device (12) and the fluid flow-rate measuring assembly (10) according to the invention do not require an external cable connection for energy supply or for data transfer and therefore can be installed economically even in measurement locations that are difficult to access.

IPC 8 full level

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