

Title (en)  
REMOTE SENSOR ARRANGEMENT

Title (de)  
REMOTE SENSORANORDNUNG

Title (fr)  
AGENCEMENT DE CAPTEUR À DISTANCE

Publication  
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Application  
**EP 22728801 A 20220511**

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Abstract (en)  
[origin: WO2022243120A1] The invention relates to a sensor arrangement (1) for determining and/or monitoring a process variable and/or a characteristic of a medium (M) in a container (2), comprising a sensor device (3), a magnetic field device (6) and a detection device (7), with the magnetic field device (6) serving to generate a magnetic field (B) in such a way that the magnetic field (B) permeates through at least the sensor device (3), the detection device (7) and, in part, the medium (M), with the sensor device (3) being designed and/or arranged such that at least one magnetic property of a component (5) of the sensor device (3) is able to be influenced in a manner dependent on the process variable and/or characteristic, and the magnetic field (B) of the magnetic field device (6) is able to be influenced by means of the sensor device (3) on the basis of the process variable and/or characteristic, with the detection device (7) being designed to register a variable related to the magnetic field (B), in particular the magnetic flux density, the magnetic susceptibility or the magnetic permeability, and to determine and/or monitor the process variable and/or characteristic on the basis of the variable related to the magnetic field (B), and with the sensor device (3) being arranged within an interior volume (V) of the container (2) and the detection device (7) being arranged outside of the container (2).

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