

Title (en)  
MEASURING APPARATUS FOR MEASURING PRESSURE AND/OR HUMIDITY

Title (de)  
MESSVORRICHTUNG ZUR MESSUNG VON DRUCK UND/ODER FEUCHTIGKEIT

Title (fr)  
SYSTÈME DE MESURE DE PRESSION ET/OU D'HUMIDITÉ

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Abstract (en)  
[origin: WO2020201086A1] The invention relates to a measuring apparatus for measuring pressure and/or humidity, comprising at least one device for measuring pressure and/or humidity, comprising at least one sensor for measuring pressure and/or humidity, the sensor comprising at least one capacitor with at least two electrodes which are arranged in relation to one another, in particular in a horizontal direction, along and on an, in particular flexible, substrate material. At least one dielectric layer is arranged between the electrodes. The invention is characterized in that at least one at least partially liquid-permeable and/or liquid-absorbing moisture layer is arranged at least locally on a side, facing away from the substrate material, of at least one electrode and/or of the dielectric layer. In a transverse direction, the at least one electrode and/or the dielectric layer is/are thus arranged between the substrate material and the moisture layer. In this way, a capacitance changes at least partially as a result of the liquid at least partially contacting the dielectric layer, wherein a processing unit is configured and provided for measuring and/or storing measurement values from the sensor. In this way, a capacitive moisture sensor is obtained. The invention is characterized in that the data measured by the sensor is transmitted by the processing unit to a central CPU, said data being processed by the processing unit.

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