

Title (en)

FORCE MEASURING DEVICE, ESPECIALLY PRESSURE GAUGE, AND ASSOCIATED PRODUCTION METHOD

Title (de)

VORRICHTUNG ZUM MESSEN VON KRÄFTEN, INSBESONDERE DRUCKSENSOR, UND ZUGEHÖRIGES HERSTELLVERFAHREN

Title (fr)

DISPOSITIF DE MESURE DE FORCE, EN PARTICULIER CAPTEUR DE PRESSION, ET SON PROCÉDÉ DE PRODUCTION

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Application

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Abstract (en)

[origin: WO2006072391A1] The invention relates to a force measuring device, especially a pressure gauge (1), comprising a deformation element (2) that can be deformed as a result of an impingement by a force, particularly pressure, and at least one measuring element (4a, 4b) by means of which a deformation of the deformation element (2) can be converted into an electrical test signal. The measuring element (4a, 4b) is disposed on a planar substrate (6) which is attached to the deformation element (2) such that a deformation of the deformation element (2) caused by the impingement by a force also results in the substrate (6) being deformed. The inventive force measuring device is characterized in that the substrate (6) is made of an electrically insulating material while the substrate (6) is provided with less flexural rigidity than the deformation element (2) as a result of the material of which the same is made. Also disclosed is an associated production method.

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