

Title (en)
PRESSURE MEASURING DEVICE

Title (de)
DRUCK-MESSEINRICHTUNG

Title (fr)
DISPOSITIF DE MESURE DE PRESSION

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Application
EP 08846746 A 20081107

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Abstract (en)
[origin: WO2009060069A2] The invention relates to a pressure measuring device comprising a base (13, 13'), an intermediate piece (15, 15') that is arranged on the base (13, 13') and connected thereto, comprising a semiconductor, and a semiconductor pressure sensor (17) that is arranged on the intermediate piece (15, 15') and connected thereto, comprising a carrier (19) and a measuring membrane (21). Said pressure measuring device can protect the sensitive measuring membrane (21) against mechanical strains in a reliable manner. The inside of the intermediate piece (15;15') comprises an annular-shaped peripheral recess (33) that surrounds a first cylindrical section (35) and a second cylindrical section (37) of the intermediate piece (15, 15') that is adjacent to first base-side thereof. The second cylindrical section (37) has a larger outer diameter than the first cylindrical section (35), and the recess is open towards the side of the intermediate piece (15, 15') that is oriented towards the base (13, 13'). The second cylindrical section (37) has a front surface that is oriented towards the base (13, 13'), that rests on an exposed front surface of the base (13, 13'), that forms a connection surface by means of which the intermediate piece (15, 15') can be mechanically connected in a rigid manner to the base (13, 13').

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Citation (search report)
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