

Title (en)

RELATIVE-PRESSURE SENSOR COMPRISING A REFERENCE-PRESSURE SUPPLY

Title (de)

RELATIVDRUCKSENSOR MIT REFERENZDRUCKZUFÜHRUNG

Title (fr)

CAPTEUR DE PRESSION RELATIVE COMPRENANT UNE ALIMENTATION EN PRESSION DE RÉFÉRENCE

Publication

EP 4070060 A1 20221012 (DE)

Application

EP 20811279 A 20201120

Priority

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Abstract (en)

[origin: WO2021110430A1] The invention relates to a relative-pressure sensor (1) for determining the pressure (p1) of a medium (2) in relation to an atmospheric pressure (p2), the sensor comprising a housing (3) having a measuring element (4) located in the housing (3), wherein the pressure (p1) to be measured acts upon an outer surface of the measuring element (4), said surface being in contact with the medium (2), a reference-pressure supply (5), which supplies an inner surface of the measuring element (4) with atmospheric pressure (p2) in the form of ambient air, an evaluation unit (6), which determines the pressure (p1) of the medium (2) from a variable determined using the measuring element (4), and comprising at least one drying chamber (7) located in the housing (3), for receiving atmospheric humidity from the ambient air that is supplied via the reference-pressure supply (5). A bushing (9) is provided, which can be pressed into the housing (3) and has a capillary-type, at least partly helical groove (11) running around the bushing (9).

IPC 8 full level

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