

Title (en)
UNIVERSAL TRANSDUCER

Title (de)
UNIVERSELLER WANDLER

Title (fr)
TRANSDUCTEUR UNIVERSEL

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Application
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Abstract (en)
[origin: DE19929264A1] The invention relates to a universal transducer and to chemosensors and biosensors based on miniaturized universal transducers of the aforementioned type which are used, for example, in analytical chemistry, medical diagnosis and the like for determining substance concentrations or ion activities in fluids. The inventive universal transducer comprises a substrate which is comprised of at least two flat substrate layers (1, 2), whereby each of the substrate layers (1, 2) has at least one opening (4, 5). These openings (4, 5) form a coherent cavity which extends from a first active surface of the substrate over the first and the second substrate layers (1, 2). An electrically conductive layer which is in contact with a filling material of the cavity is at least partially arranged on the surfaces of at least one of the two substrate layers (1, 2), said surfaces facing away from the first active surface (10).

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