

Title (en)

PIEZOELECTRIC TRANSDUCER WITH A TEMPERATURE-SENSITIVE COMPONENT

Title (de)

PIEZOELEKTRISCHER SCHWINGER MIT TEMPERATURABHÄNGIGEM BAUELEMENT

Title (fr)

TRANSDUCTEUR PIEZOELECTRIQUE A COMPOSANT SENSIBLE A LA TEMPERATURE

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Application

EP 98962248 A 19981103

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Abstract (en)

[origin: DE19820208A1] The invention relates to a piezoelectric transducer of the type used for ultrasound propagation, for example in acoustic flow rate measuring devices or level detecting devices. The inventive piezoelectric transducer preferably consists of a piezoelectric ceramic (1) which has a first electrode (2) on a first surface and a second electrode (6) on a second surface opposite the first. An electrode-free edge area (3) on which a temperature-sensitive component (9) is mounted is provided on the first surface of the piezoelectric ceramic. Said component is conductively connected to at least one of the electrodes (2, 6). The inventive piezoelectric transducer enables temperature to be measured directly at the acoustic measuring point without any additional cabling.

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