

APPARATUS FOR DETERMINING AT LEAST ONE PROCESS VARIABLE

Abstract

The invention relates to an apparatus for determining at least one process variable of a medium in a container or in a pipeline, including: at least a first element (5) and a second element (4), which are necessary components of the apparatus for determining the process variable and which contact at a contact location (12), which is exposed to a process temperature T_p . The invention is characterized in that the first element (5) comprises a first material (M1); the second element (4) comprises a second material (M2); the first material (M1) and the second material (M2) are selected and matched to one another in such a manner that at the contact location (12) between the first material (M1) and the second material (M2) a thermovoltage U_{th} dependent on the difference between the process temperature T_p and the reference temperature T_{ref} arises; and the temperature determining unit (11) measures the thermovoltage U_{th} and determines the process temperature T_p therefrom. Furthermore, a corresponding method is claimed.

Figure 1