

Title (en)
TEMPERATURE LIMIT VALUE SENSOR

Title (de)
TEMPERATUR-GRENZWERTGEBER

Title (fr)
TRANSMETTEUR DE VALEUR LIMITE DE TEMPÉRATURE

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EP 3566032 A1 20191113 (DE)

Application
EP 17821512 A 20171208

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Abstract (en)
[origin: WO2018127357A1] The present invention relates to a system (1) for monitoring a predefinable temperature (Tmin/max), comprising a monitoring unit (2) comprising: a reference element (3), which reference element (3) consists at least partially of a material (10, 15), for which material (10, 15) at least one phase transition occurs at a phase transition temperature (Tph), which phase transition temperature (Tph) lies within the range of the predefined temperature (Tmin/max), for which phase transition the material (10, 15) remains in the solid phase; and a detection unit (4) which is designed to detect the occurrence of the phase transition using a change, in particular a sudden change, in at least one physical or chemical variable (G, Lref, Cref) characteristic of the reference element (3) and to generate a message as to whether the predefinable temperature (Tmin/max) has been exceeded or undershot. The invention also relates to a monitoring unit (2) and a detection unit (4) for use in a system (1) according to the invention and to a method for monitoring the predefinable temperature (Tmin/max) by means of a system (1) according to the invention.

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Citation (search report)
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