Title (en)
METHOD AND DEVICE FOR DETECTING DRIFTS, JUMPS AND/OR OUTLIERS OF MEASUREMENT VALUES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG VON DRIFTEN, SPRÜNGEN UND/ODER AUSREISSERN VON MESSWERTEN

Title (fr)
PROCEDE ET DISPOSITIF POUR DETECTER DES DERIVES, DES SAUTS ET/OU DES POINTS ABERRANTS DE VALEURS DE MESURE

Publication
EP 1097439 B1 20040303 (DE)

Application
EP 99939929 A 19990622

Priority
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Abstract (en)

[origin: US6556957B1] A method for detection an alarm state of measurement signal values received by means for detecting measurement values, wherein an alarm state is triggered when for a currently received measurement signal value at least one pre-set limit value is exceeded, has a faster recognition of an alarm situation and at the same time a lower rate of false alarms when in a first step for measurement signal values which are subsequent in time their position parameter (2) and a corresponding deviation parameter (3) of the measurement signal values from the position parameter is calculated in an adjustable time window, wherein in a second step each further subsequent measurement signal value is compared to the position parameter (2) an weighted with the deviation parameter (3) in order to obtain a respective evaluation quantity, and wherein in a third step an outlier state (6) is detected when the evaluation quantity exceeds an adjustable outlier parameter, whereas an alarm state (8) indicating the presence of a significant drift or jump of the measurement signal values is detected when the evaluation quantity exceeds an adjustable alarm parameter.

IPC 1-7
G08B 29/18

IPC 8 full level
G08B 29/18 (2006.01)

CPC (source: EP US)
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US 6556957 B1 20030429; AT E261164 T1 20040315; EP 1097439 A1 20010509; EP 1097439 B1 20040303; WO 9967758 A1 19991229

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