

Title (en)

METHOD FOR DETERMINING THE STATE OF A FIELD MEASURING INSTRUMENT FOR PROCESS AUTOMATION AND PROCESS INSTRUMENTATION, AND FIELD MEASURING INSTRUMENT FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUR BESTIMMUNG DES ZUSTANDS EINES FELDMESSGERÄTES FÜR DIE PROZESSAUTOMATISIERUNG UND PROZESSMESSTECHNIK UND FELDMESSGERÄT ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE DETERMINATION DE L'ETAT D'UN APPAREIL D'ARPENTAGE DESTINE A L'AUTOMATISATION DE PROCESSUS ET A LA TECHNIQUE INDUSTRIELLE, ET APPAREIL DE MESURE CORRESPONDANT

Publication

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Application

EP 03767645 A 20031125

Priority

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Abstract (en)

[origin: WO2004048898A1] The aim of the invention is to systematically record the influence of an individual adverse influence quantity or of a combination of adverse influence quantities on the serviceable life or operability of a field measuring instrument and to be able to better estimate the serviceable life or operability of the field measuring instrument. To this end, at least one relevant influence quantity, preferably several, is/are evaluated. In addition to a measured value (24) for a process variable, other quantities (25) and (26) are recorded by corresponding sensors placed on or in the field measuring instrument and are preprocessed in analog format in appropriate operating circuits in order to then digitally record them with the same A/D converter (21) that also records the measurement signal A for the process variable. The desired input signal can be selected via a multiplexer (22) and is then further processed with the aid of a microprocessor (23). As a result, the combined effect of the different influence quantities is determined and a remaining estimated serviceable life is calculated. The microprocessor (23) can trip an alarm signal in the event critical values arise in the recorded influence quantities (25, 26).

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CPC (source: EP US)

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Citation (search report)

See references of WO 2004048898A1

Citation (examination)

- US 5828567 A 19981027 - ERYUREK EVREN [US], et al
- DE 10100239 A1 20020711 - METTLER TOLEDO GMBH [CH]
- DE 19983112 T1 20010712 - ROSEMOUNT INC [US]

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