

Title (en)  
ELECTRONIC MEASURING DEVICE FOR MEASURING A PROCESS VARIABLE, AND METHOD FOR OPERATING A MEASURING DEVICE OF THIS TYPE

Title (de)  
ELEKTRONISCHE MESSVORRICHTUNG ZUR ERFASSUNG EINER PROZESSWVARIABLEN, UND VERFAHREN ZUM BETREIBEN EINER SOLCHEN MESSVORRICHTUNG

Title (fr)  
APPAREIL DE MESURE ELECTRONIQUE POUR DETECTER UNE VARIABLE DE PROCESSUS, ET PROCEDE POUR ACTIONNER UN TEL DISPOSITIF DE MESURE

Publication  
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Application  
**EP 01998948 A 20011127**

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Abstract (en)  
[origin: WO0245045A1] The invention relates to a method and an electronic measuring device for measuring a process variable. The electronic measuring device can be connected to a two-wire line (101) for providing a power supply and for digitally communicating with a process control system. The invention also relates to a method for operating a measuring system of the aforementioned type. An inventive measuring system comprises a sensor device (114, 115, 123, 124; 314, 315, 323, 324) for measuring the process variables, a control device (117; 317) for controlling components of the measuring device, a voltage measuring device (116; 316) for measuring the supply voltage on the two-wire line (101) and, lastly, a current regulating unit (122; 322), with which the current for supplying the measuring device can be changed in a temporally appropriate manner according to the supply voltage measured by the voltage measuring device (9; 316).

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