

Title (en)  
SENSOR INTERFACE WITH INTEGRATED CURRENT MEASUREMENT

Title (de)  
SENSORSCHNITTSTELLE MIT INTEGRIERTER STROMMESSUNG

Title (fr)  
INTERFACE DE CAPTEUR A MESURE DU COURANT INTEGREE

Publication  
**EP 1799516 A1 20070627 (DE)**

Application  
**EP 05771891 A 20050803**

Priority  
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Abstract (en)  
[origin: WO2006040203A1] The invention relates to a control and analytical device for various sensor units (101), comprising a stabilised supply unit (300) for supply of the sensor unit (101) with electrical energy, an amplifier device (200), for amplification of a sensor signal (112), generated by the sensor unit (101), which is provided to the amplifier device (200) as an input signal and for output of a measured signal (110), dependent on the sensor signal (112) and an output device (109) for output of the amplified sensor signal (112) as an output signal (108). The amplifier device (200) comprises an integrated measuring resistance (205) for measurement of the voltage drop (111) caused by the sensor signal (112), whereby the voltage drop (111) for the amplifier device (200) is supplied as the input signal. The measured signal (110) is further compared in a comparator unit (107) arranged after the amplifier device (200) with a given threshold value (106), whereby the threshold value (106) may be adjusted depending on the sensor unit (101) in use.

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Citation (search report)  
See references of WO 2006040203A1

Citation (examination)  
• WO 2004086601 A1 20041007 - BOSCH GMBH ROBERT [DE], et al  
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• ANONYMOS: "RCV420 - Precision 4mA to 20mA CURRENT LOOP RECEIVER", October 1997 (1997-10-01), US, Retrieved from the Internet <URL:http://www.ti.com/lit/ds/symlink/rcv420.pdf> [retrieved on 20180130]

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