

Title (en)

ENERGY METER SYSTEM AND METHOD FOR CALIBRATION

Title (de)

ENERGIEZHLERANORDNUNG UND VERFAHREN ZUM KALIBRIEREN

Title (fr)

SYSTEME COMPTEUR D'ENERGIE ET PROCEDE DE CALIBRAGE

Publication

EP 1723435 A1 20061122 (DE)

Application

EP 05733931 A 20050303

Priority

- EP 2005002264 W 20050303
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Abstract (en)

[origin: WO2005085881A1] The invention relates to an energy meter system with two inputs (1, 2) to which signals are supplied that depend on an electrical voltage (V) and an electric current (I). These signals are digitized and interlinked in A/D converters (3, 4). In order to correct phase deviations which can be caused by means for coupling in the signals (14, 16), a phase evaluation block (9) is connected to the outputs of the A/D converters. The phase evaluation block (9) controls a phase correction block (6) on the output of an A/D converter (4). Phase evaluation can be carried out in the digital signal processing unit, thereby making it possible to easily carry out a cost-effective compensation of phase errors in such a way that is possible to carry out a galvanic separation while avoiding errors of measurement at the input. The inventive energy meter system is especially suited for implementation into integrated circuit technology.

IPC 8 full level

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CPC (source: EP US)

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