

Title (en)

ANALOG TRANSDUCER CIRCUIT WITH DIGITAL CONTROL

Title (de)

ANALOGER MESSUMFORMER MIT DIGITALER STEUERUNG

Title (fr)

CIRCUIT TRANSDUCTEUR ANALOGIQUE A COMMANDE NUMERIQUE

Publication

EP 0328520 B1 19990623 (EN)

Application

EP 87905408 A 19870812

Priority

- US 89937886 A 19860822
- US 8701942 W 19870812

Abstract (en)

[origin: WO8801417A1] A two wire transmitter (10) controls loop current as a function of a sensed parameter such as pressure or temperature using analog sensing and signal processing circuitry. Corrections, such as for zero, span, and linearity are provided in the form of analog correction signals by a digital circuit which includes a nonvolatile memory (36), a microcomputer (32), and a digital-to-analog (D/A) converter (26). The microprocessor (32) controls the D/A converter (26) as a function of stored digital correction values to produce the analog correction signals used by the analog signal processing circuitry to control the magnitude of the loop current flowing through the two wire transmitter (10).

IPC 1-7

G08C 19/10

IPC 8 full level

G08C 19/02 (2006.01)

CPC (source: EP)

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Citation (examination)

US 604566 A 18980524

Cited by

DE102007046560A1; DE102005020870B4; DE102008050354A1; DE102008057474A1; DE102008057474B4; DE10037996A1; DE10037996C2; US8514661B2

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