

Title (en)

MULTIFUNCTION ISOLATION TRANSFORMER.

Title (de)

MEHRFUNKTIONISOLATIONSTRANSFORMATOR.

Title (fr)

TRANSFORMATEUR D'ISOLEMENT MULTIFONCTIONS.

Publication

EP 0518916 A4 19921019 (EN)

Application

EP 91905145 A 19910221

Priority

- US 9101210 W 19910221
- US 48306290 A 19900221

Abstract (en)

[origin: WO9113417A1] A process transmitter (50) transmits a 4-20 mA current representing a sensed parameter to a loop (52) which energizes the transmitter (50). An output circuit (60) receives energization from the loop (52) and controls the 4-20 mA output as a function of a sensor data input. The output circuit (60) further generates a transformer driver output which also serves as a clock for isolated circuitry (106). A sensor circuit (82) generates a transformer driver output representing the sensed parameter. An isolation transformer (76) driven by the driver output excites the sensor circuit (82) and provides a clock reference as a function of the driver output oscillation to the sensor circuit (82). The isolation transformer (76) is a single coupling device which couples energization, clock reference, sensor data and programming data across an electrically insulating barrier between the output circuit (50) and the sensor circuit (82).

IPC 1-7

G08C 19/06

IPC 8 full level

G08C 19/02 (2006.01)

CPC (source: EP)

G08C 19/02 (2013.01); **H01F 2019/085** (2013.01)

Citation (search report)

- [YD] US 3764880 A 19731009 - ROSE R
- [YD] US 4206397 A 19800603 - DAHLKE CHARLES J [US]
- See references of WO 9113417A1

Cited by

US2015236759A1; US9544027B2; US8000841B2; WO2005104056A3; WO2018140312A1; US10761524B2; US10502608B2; US7764162B2; US9674976B2

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