

Title (en)

Method for the transmission of measured values in a control system.

Title (de)

Verfahren zur Übertragung von Messwerten in einem Überwachungssystem.

Title (fr)

Procédé pour la transmission de valeurs mesurées dans un système de contrôle.

Publication

EP 0093872 A1 19831116 (DE)

Application

EP 83103224 A 19830331

Priority

CH 258982 A 19820428

Abstract (en)

[origin: US4612534A] Measuring stations or locations are connected in cascade to signal lines and transmit measured or measuring values to a central signal station at which the measured values are linked or appropriately processed so as to obtain distinct malfunction or alarm signals. Upon activation of the monitoring system all measuring stations are disconnected by a change in voltage appearing on the signal line. Then, the measuring stations are reconnected to the signal line in a timewise staggered fashion by means of switching elements present at each measuring station in such a manner that each measuring station additionally reconnects a subsequent measuring station to the line voltage after a predetermined time-delay. Address storages are present at the measuring stations and are charged or occupied in a predetermined sequence by the central signal station with addresses associated with the individual measuring stations. The address storages are thereafter locked prior to the time that the next following measuring station at the same signal line is connected to the signal voltage by the switching element.

Abstract (de)

Meßstellen (MS), die kettenförmig an Signallinien (L) liegen, übermitteln Meßwerte an eine Signalzentrale (Z), in welcher sie zur Gewinnung differenzierter Störungs- bzw. Alarmsignale verknüpft werden. Bei Inbetriebnahme werden alle Meßstellen (MS) durch eine Spannungsänderung der Signallinie (L) abgetrennt und dann durch in jeder Meßstelle vorhandene Schaltelemente (S) zeitlich gestaffelt so wieder an die Signallinie (L) angeschaltet, daß jede Meßstelle (MSm) nach einer bestimmten Zeitverzögerung eine nachfolgende Meßstelle (MSm + 1) zusätzlich an die Linienspannung anschaltet. In den Meßstellen (MS) sind Adreßspeicher (AR) vorhanden, welche in vorgegebener Reihenfolge von der Signalzentrale (Z) aus mit den Adressen (A) der einzelnen Meßstelle (MS) belegt und dann verriegelt werden, bevor durch das Schaltelement (S) die nächste Meßstelle (MS) derselben Signallinie (L) an die Signalspannung angeschlossen wird.

IPC 1-7

G08B 26/00

IPC 8 full level

H04L 25/02 (2006.01); **G08B 26/00** (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP US)

G08B 26/005 (2013.01 - EP US); **G08B 29/24** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0042501 A1 19811230 - CERBERUS AG [CH]
- [Y] FR 2121318 A5 19720818 - BBC BROWN BOVERI & CIE
- [A] US 4263580 A 19810421 - SATO TAKAO, et al
- [AD] DE 2533382 B1 19761021 - SIEMENS AG
- [A] TECHNISCHE MITTEILUNGEN, AEG-TELEFUNKEN, Band 61, Nr. 6, 1971, Seiten 318-320, Berlin, DE.

Cited by

EP1363261A1; EP0450119A1; DE4405986A1; AU750454B2; EP0468234A3; DE10240650B3; EP1398745A3; EP0212106A1; EP1553726A4; EP0419703A1; EP0243928A3; AT399957B; DE3715196A1; EP0191239A1; US4864519A; EP0854609A3; US6563326B1; WO0003368A1; US7330766B2; US11367339B2; WO2019242863A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0093872 A1 19831116; CH 664637 A5 19880315; JP H0378024 B2 19911212; JP S58198943 A 19831119; US 4612534 A 19860916

DOCDB simple family (application)

EP 83103224 A 19830331; CH 258982 A 19820428; JP 7312683 A 19830427; US 49496683 A 19830419