

Abstract

Telecontrol system with data transmission via the shielding of power transmission cables

A databus (DB) contains a chain of substations (U1-U12) which are connected to operational devices (NB1...), and which are connected at system points (NP1..) to grounded cable shields (KE) of neighboring power transmission cable sections (NK1..). They feed data into, or tap data from, the ground-current circuits (ES1, ES2). A central control unit (ZSE) feeds in the interrogation message (GAB, KAT, TAB) addressed to the last substation (U12) of the chain. Said interrogation message is relayed from each substation in the direction of the last substation. After receiving the interrogation message, the last substation feeds in a response message (KAT; AT12) addressed to the central control unit. It is only given the presence of changes in status in the case of connected operational devices that, after receiving at least one response message, each further substation feeds in a dedicated response message containing the changes in status.

FIGURE 2