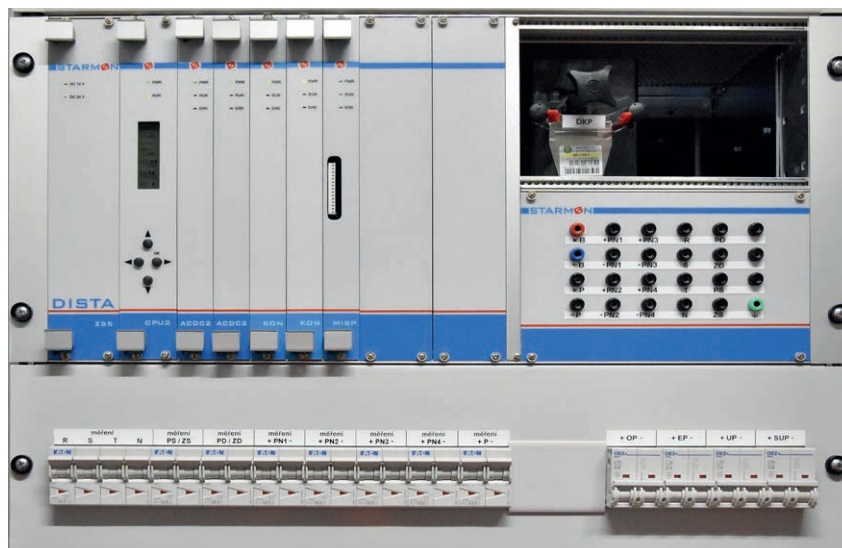# DiagSWing DISTA

Measuring device

- Interface with signaling systems meeting SIL4 requirements according to CENELEC
- Modular system
- Measurement of physical values, scanning of operating states

GENERAL DESCRIPTION

The measuring device DiagSWing DISTA (further DISTA) is a modular system designed for complex status and measuring diagnostic of signalling and telecommunication equipment applicable for railway and industrial operation.

DISTA can be used in automatic or semi-automatic diagnostic mode to monitor operating states and values not only for electronic but also for relay based signalling systems.

DISTA is used as a direct replacement for manual measurement during regular maintenance, as all measuring modules are subject to regular calibration in a certified laboratory.

BASIC TECHNICAL DESCRIPTION

Processor unit CPU2 controls measuring of individual parameters without the need for maintenance staff.

DISTA can be also used in locations with limited access to master systems (e.g. DiagSWing LDS-3).

ACDC2 voltage measuring module is designed for processing the digital signal on eight mutually isolated inputs at the same time including detection of automatic train protection (ATP) code, measurement of track circuit parameters and measurement of phase shift.

MIS module is designed for measurement of insulation resistance of isolated systems within a range of 0 Ω to 20 MΩ.

The insulation resistance between isolated systems and between the system and protective earth (PE) is measured.

KON module is used to check the relay contact states. It detects the status of relay contact, whether it is open or closed.

Communication of DISTA with master system is provided via Ethernet. In addition to the proprietary DISTA protocol, it is possible to use IEC 61870-5-104 protocol.

BASIC TECHNICAL PARAMETERS

Voltage measurement (for one ACDC2 module)	8 isolated inputs 4kV AC/1 min, basic range 0–60V or 0–300V
Potential input detection (for one KON module)	24 inputs
Insulation resistance measurement (for one MIS module)	16 inputs

DiagSWing GDS

DiagSWing LDS-3

DiagSWing DISTA

CPU2

Measurement
of insulation resistance
MIS
1–16

Scanning
the contact status
KON
1–24

Voltage
measurement
ACDC2
1–8, 60 V – 300 V