

DV928A2NCI ETH



Item code - **467010341**

The DV928A2NCI is a monitoring device to be installed in Primary Substations (conversion from High Voltage to Medium Voltage) by ENEL Distribuzione managed with isolated neutral or compensated neutral.

The main purpose of the DV928 is to evaluate the efficacy of ground fault blow-out systems (Petersen coil, shunt, etc.), on MT networks with isolated or compensated neutral and to perform several system monitoring functions useful for diagnostic purposes (checking of MT switch opening and shunt times).

The DV928 implements local processing of medium complexity, aimed at correlating input signals and transmitting synthetic event word signals to the Centre, via the TPT-2000.

The DV928 is entirely configurable and programmable via a portable Personal Computer connected via ETHERNET. The DV928 application program can also be updated on site via ETHERNET.

The DV928 comprises the following functional blocks:

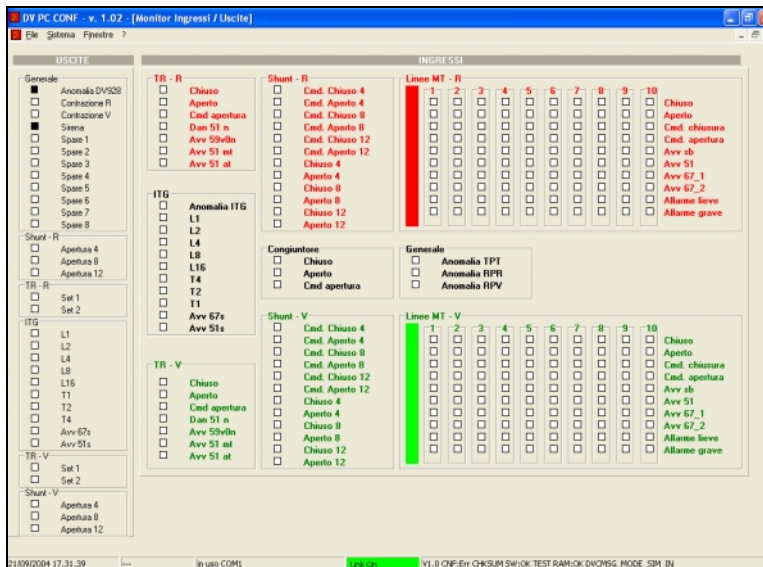
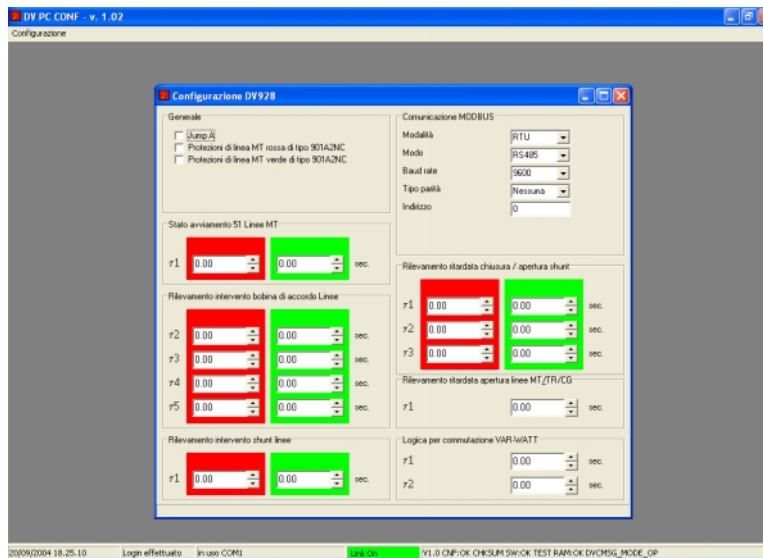
- module for direct interface with the field capable of:
 - acquiring 256 digital input signals at 24V and 110V;
 - controlling 32 digital relay outputs each of which is able to control 5A at 110V continuous;
- a processing module fitted with the following peripheral devices:
 - 16 bit microprocessor with 24 MHz frequency clock;
 - 128 kB Flash code memory and 32kB data memory;
 - clock/dater with buffer battery;
 - 1 ETHERNET line (for connecting diagnostic/configuration PC);
 - 1 serial line RS485 (for sending the status of different input and status signals via MODBUS protocol, both in ASCII and RTU format);
 - hardware watch-dog device for automatic reset in event of program crash;
 - two status LEDs (one of which is two-colour) located on front panel;
- 110V_{DC} ± 20% power supply system protected from overload, short circuit and polarity inversion; the power supply is insensitive to gaps in input voltage of 100% for 50 ms.

The different sections comprising the DV928, just like the various islands in which the digital input and output signals are grouped, are all isolated from each other at least up to 1000V_{AC}. The signals envisaged for connecting to the manoeuvre components are isolated from the other sections of the DV928 at least up to 2000V_{AC}.

The DV928 is contained in a steel rack suitable for assembly on normalized 19" frames, 9 units high, which can be fitted by supporting it solely with the fastening screws envisaged on the front template. Two handles are fitted on the front of the panel to facilitate assembly and disassembly operations.

Adjustments, calibrations, diagnostics and other operations on the DV928 can all be performed via a special program to be run in Windows on PC connected to the DV928 by ETHERNET port located on the front panel.

All connections to the field can be made using the connectors located on the back of the panel.



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