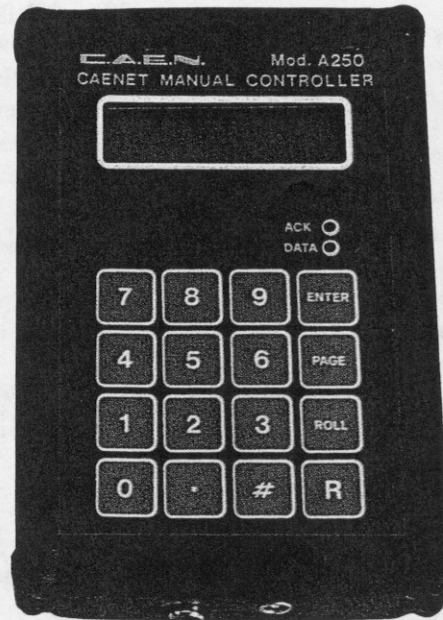


MODEL A 250

H.S. CAENET MANUAL CONTROLLER

HIGH SPEED CAENET



FEATURES

- **Hand-held unit.**
- **Control capability: up to 100 Modules/Systems daisy-chained.**
- **Manual control through front-panel keyboard.**

DESCRIPTION

The **Model A 250** is a hand-held unit with which it is possible to control and monitor various CAEN modules, via the High Speed CAENET serial link and protocol (1 MB transmission rate). It is particularly suited for setting up experiments, or lab tests.

The unit does not have an autonomous power supply therefore it needs to be connected, via its own power cable, to the power plug of any of the modules or systems in the network.

CAEN models controllable via CAENET at present are:

Mod. SY 170A, the 64 Channel High Voltage Programmable Divider;

Mod. N 146A, the Programmable Delay Unit;

Mod. N 147A, the Programmable Attenuator;

Mod. N 209, the Programmable Time Difference Analyser;

Mod. N 210, the Programmable 16-bit I/O Relay Register;

Mod. N 211, the Dual Programmable Instrumentation Amplifier;

Mod. N 286, the 8 CH Programmable Amplifier;

Mod. N 287, the QUAD Programmable ADC-DAC;

Mod. N 402, the 4 CH Programmable Spectroscopy Amplifier;

Mod. PS 35-100 BP, The High Voltage Power Supply;

Mod. PS 100-10 BP, the High Voltage Power Supply;

Mod. A 290, the H.S. CAENET - WIENER Crate Controller.

Mod. SY 403, the 64 CH High Voltage System.

Never attempt to connect the control unit to the following CAEN models, because they give an incompatible voltage level:

- Mod.SY 170 High Voltage Divider
- Mod. N 146 Programmable Delay Unit
- Mod.N 147 Programmable Attenuator.

Up to 100 modules/systems, mixed in any configuration and daisy-chained, can be controlled from a single A 250.

The data exchange between the A 250 control unit and the modules/systems takes place according to the typical TERMINAL communication, with control unit acting as a terminal.

The instructions are entered via the front-panel control unit keyboard which is composed as follows:

- 10 numerical keys (0 to 9)
- decimal point key
- 5 function keys (ENTER, PAGE, ROLL, RESET, #).

Data are displayed through an LCD display, consisting of two rows with 16 characters each, which is divided into various fields depending on the module to be controlled.

OPERATING MODE

After having connected the power cable to the power plug of any of the modules/systems in the network, it is possible to select the module/crate to be controlled by simply entering its own identification number. To do so, press in sequence the appropriate numerical keys followed by the function key "#".

After about 500 ms, the communication is activated (otherwise an error message appears on the LCD display), and the fields correlated with the selected module are shown on the LCD display. At this point it is possible to operate in TERMINAL mode, according to the specific operational commands of the selected module.

The "ENTER" key, in the appropriate field, allows another module to be controlled.

Every 500 ms, the A 250 control unit operates a data refresh in order to constantly monitor the module's status.

SPECIFICATIONS

CONNECTORS:

- 1, Female coaxial plug, RCA type (POWER SUPPLY)
- 1, LEMO 00 type (H.S. CAENET serial line)

LED displays:

- 1, red LED (ACK)
- 1, red LED (DATA)

POWER REQUIREMENTS

+5 V 400 mA



COSTRUZIONI APPARECCHIATURE ELETTRONICHE NUCLEARI S.p.A.

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