

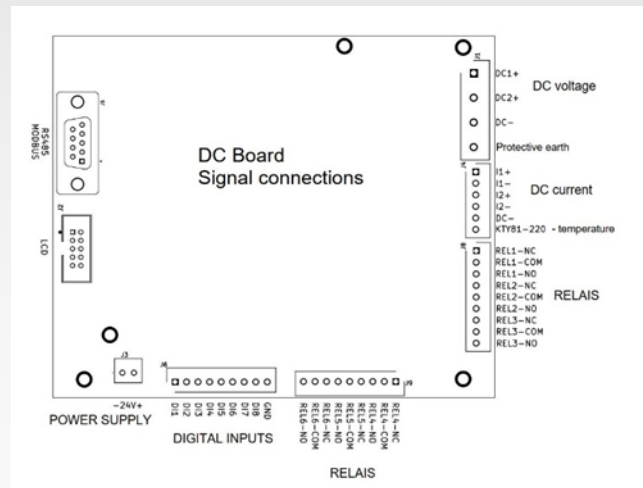
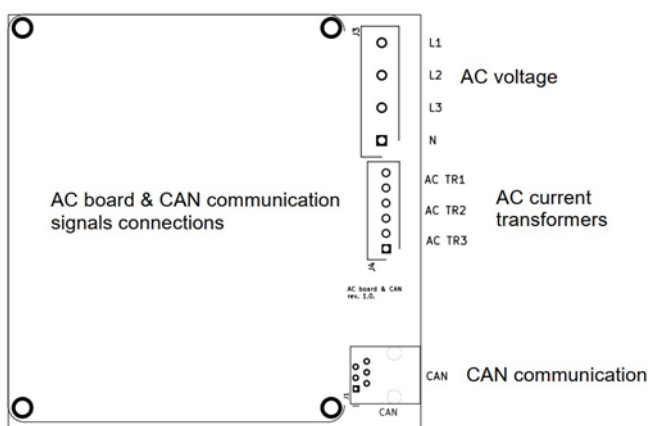


MPJ 04

MICROPROCESSOR MONITORING and CONTROL UNIT

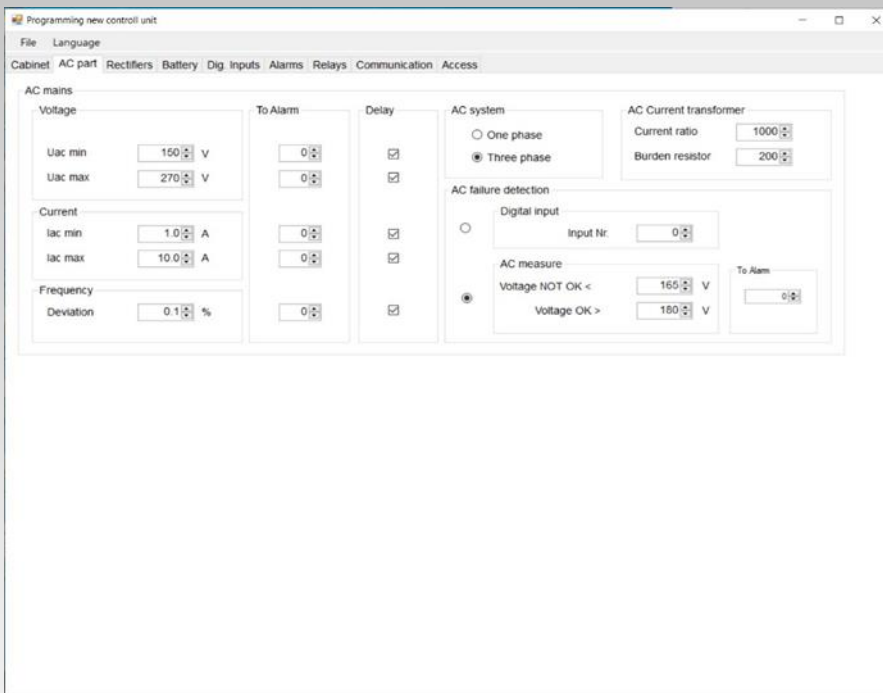
DESCRIPTION

The new monitoring unit is our product fully developed in-house with the aim of meeting the increasing demands of clients for higher quality monitoring, control and signaling. Unlike our monitoring unit type MJ-02, which has distributed units for measurement, control and management, this monitoring unit is designed for compact systems, and for modular products of the built-in rack type with rectifiers that include battery chargers and control and battery charge monitoring. This is why this monitoring unit has integrated measurement, control and management modules, so that a single system does not need any additional modules for measurement or management. The modules are located on the printed circuit boards, positioned in such a way as to allow easy access to the associated connectors, and to ensure the galvanic isolation of the modules located at different potentials. The control unit has a CAN interface through which it is connected to the battery chargers.





Through are read and system parameters are adjusted, while all other system parameters are programmed via a special PC program, the appearance of which can be seen in the attached picture:



In addition to the local reading of system parameters, the monitoring unit also enables remote reading of these same parameters via MODbus via two built-in interfaces, RS485 and Ethernet.

POSSIBILITIES OF MEASUREMENT, CONTROL AND MANAGEMENT**AC PART:**

- 3 phases, voltage, current and frequency,
- Measuring voltage range – up to 290V RMS,
- Current range - depending on the used current transformers,
- Voltage and current measurement accuracy - better than 0.2%,
- Frequency measurement accuracy - better than 0.02 %

DC PART:

- 2 voltages, 2 currents, insulation resistance and temperature,
- Voltage measurement range – up to 310 V,
- Range of measured currents - depending on the shunts used,
- Voltage and current measurement accuracy - better than 0.2%,
- Temperature measurement accuracy – about 2%,
- Insulation measurement accuracy - about 3%

DIGITAL INPUTS:

- 8 digital inputs,
- galvanically isolated

RELAY OUTPUTS:

- 6 relay outputs,
- AC voltage and current: up to 250 V / 1A,
- DC voltage and current: voltage up to 100V,
- current depending on the voltage, from 1A@24V to 0.1A@100V

DISPLAY

- High visibility 4,3" LED TFT display with touch functionality

COMMUNICATIONS**CAN:**

- CAN 2.0, 11 bit ID, speed: 100 Kb

RS485:

- Galvanically isolated interface,
- Ability to adjust speed, parity and number of stop bits

ETHERNET:

- Speed: 100 Mb,
- Ability to adjust all communication parameters

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