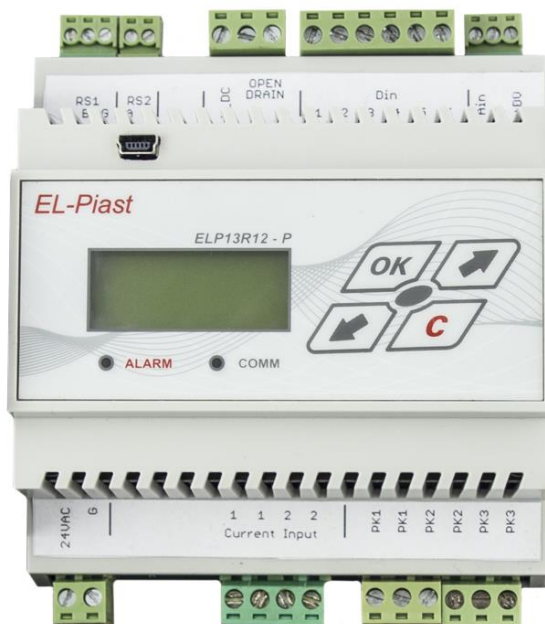


PLC Controller

ELP13R14-P-BAC

1. Technical details:



- Supply voltage : 24 V AC/DC +/-10%
- Open Drain Outputs
- Communication link: 2 x RS-485
- Protocol BACnet MS/TP, Modbus RTU
- Alarm and Communication indicator
- Built-in RTC clock and calendar
- Built-in display
- Built-in temperature sensor
- Built-in buzzer
- Storage temperature: -20...70 °C
- Operating temperature: -20...50 °C
- Dimensions: 102 x 132 x 58 mm
- USB port
- Dedicated HMI port

2. Resources

DIGITAL INPUTS

- 6 inputs triggered signal 24V AC / DC

ANALOG INPUTS:

- 1 analog outputs 0-10V / 0-20mA with integrated PTC protection

For voltage inputs:

- Allowable input voltage: 0 – 10 VDC
- Input resistance: 450 kOhm +/- 5%
- The frequency of measurement: 2,5ms
- Accuracy: +/- 0,005 V
- Resolution: 12 bits

For current inputs:

- Allowable input current: 0 - 20 mA
- Input resistance: 120 Ohm +/- 5%
- The frequency of measurement: 2,5ms
- Accuracy: +/- 0,01 mA

MEASURING INPUTS – AC CURRENT:

- 2 measuring current inputs
- Minimal measuring current: 0,5 A
- Maximum measuring current: 16 A
- Measuring accuracy: $\pm 0,05$ A

RELY OUTPUTS:

- 3 relay outputs with NO contact, 5A AC1

DC VOLTAGE OUTPUTS:

- 1 VDC output with built-in PTC protection
- Output voltage:
 - a) for supply voltage DC: $VDC = U_{sup}(DC) - 2 \pm 10\%$
 - b) for supply voltage AC: $VDC = U_{sup}(AC) * 1,41 - 2 \pm 10\%$
- Maximum current load: 250 mA
- 1 output +24 with built-in PTC protection
- Output voltage: 24 VDC +/- 1V
- Maksimum current efficiency: 50 mA

BUILT-IN TEMPERATURE SENSOR:

- Measuring range: -40 ... +70 °C

BUILT-IN BUZZER

OUTPUT OPEN DRAIN(OD) TYPE:

- 2 outputs OD type
- Maximum voltage: 45 VDC
- Maximum output current load: 500 mA

COMMUNICATION LINKS:

- RS1 – RS-485 MASTER - galvanically isolated
- RS2 – RS-485 HMI
- RS3 – RS-485 SLAVE

All RS-485 communication interfaces are overvoltage and overload PTC protected.
Possible work with Modbus RTU and BACnet MS/TP protocols.