

KP-ELP14R18-EN-V1

# PLC Controller ELP14R18

## 1. Technical detailes





• Supply voltage: 24 V AC/DC +/-10%

• Communication link: 3 x RS-485

Modbus RTU, BACnet MS/TP protocols

• Alarm and Communication indicator

• Built-in RTC clock and calendar

• Storage temperature: -20...70 °C

• Operating temperature: -20...50 °C

USB connector

• Dedicated HMI connector

• Assembly: rail DIN 35

• Dimensions: 102 x 132 x 58 mm

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### 2. Resources

#### DIGITAL INPUTS

- 3 inputs triggered signal 24V AC / DC

#### **ANALOG INPUTS:**

- 2 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 VResolution: 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

#### TEMPERATURE INPUTS:

- 5 PT1000 temperature inputs with built-in PTC protection
  - Sensor's current: 1 mA
  - Minimum load resistance: 0 Ohm
  - The frequency of measurement: 2,5ms
  - The measuring range: -50..170°C
  - Accuracy: +/- 0,2°C
  - Resolution: 8 bits / °C

#### **ANALOG OUTPUTS:**

- 3 0-10V analog outputs with built-in PTC protection
  - Nominal output voltage: 0 10 VDC
  - Maximum output: 20 mA
  - Maximum load impedance: 500 Ohm
  - Resolution: 8 bits / V

#### **RELY OUTPUTS:**

- 3 relay outputs with NO contact, 10A AC1
- 2 relay with double NO contact, 8A AC1

#### **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.

Link RS1 is galvanically isolated from the rest of the circuit.

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# 3. Versions of the configuration of drivers

PLC controller ELP14R18 can appear in several versions of the optional configuration:

Name	Connectors		Enclosure and	Modbus	BACnet
	USB	HMI	display on the controller	RTU	MS/TP
ELP14R18- MOD-RTU	✓	✓	✓	<b>√</b>	_
ELP14R18- MOD-RTU BASIC	-	-	-	<b>√</b>	-
ELP14R18- BAC-MSTP	✓	✓	✓	<b>√</b>	✓
ELP11R32- BAC-MSTP BASIC	_	_	-	<b>√</b>	<b>✓</b>

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