

Electronic Temperature Controller

The ELTC/H-14 is an electronic temperature controller with digital display for wall mounting. The temperature is measured by a Pt100 sensor, processed by the microcontroller and displayed. After having evaluated the actual and preset values, the appropriate output relays are switched, depending on the configuration.

The controller is equipped with a socket. The unit is supplied in a weather proof plastic enclosure, with a transparent cover.

Advantages:

- LED display operable down to $-25\text{ }^{\circ}\text{C}$
- Programmable $0\text{ }^{\circ}\text{C}$ up to $+390\text{ }^{\circ}\text{C}$
- For switching 20 A resistive load with hybridrelay
- Signaling contact (configurable to operate either as alarm or release contact, potential-free)
- Suitable for Pt100 with 2 or 3 wires
- Operating voltage:
 $90 - 260\text{ VAC} / 50/60\text{ Hz}$

Applica- tions:

- Industrial applications
- Heating mats, heated hoses



Type **ELTC/H-14**





Technical Information

Data

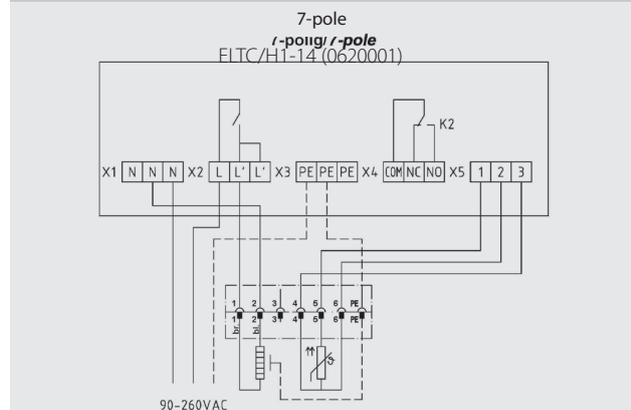
■ Operating voltage	90-260 VAC 50/60 Hz
■ Power consumption	Max. 4 mA, < 5 W
■ Switching capacity relay 1	20 A with hybridrelay*
■ Switching capacity relay 2	8 A, changover contact (alarm)
■ Operating temperature	-25 up to +55 °C
■ Storage temperature	-30 up to +60 °C
■ Display range	-50 up to +400 °C
■ Adjustable range	0 up to +390 °C, optional configuration
■ Sensor connection	Pt100 2-wire, 3-wire, optional configuration
■ Display	LED, red
■ IP rating	IP 65
■ Dimensions (w x h x d)	130 x 130 x 75 mm polycarbonate enclosure

* depends on respective socket

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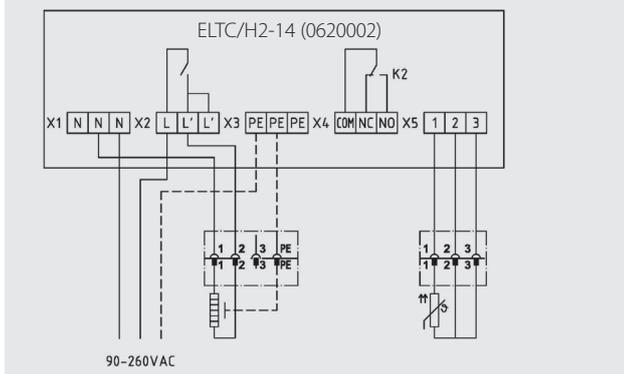
Type	Designation	Art. No.
ELTC/H1-14	Socket, 7-pole (10 A), supply cable with Schuko plug	0620001
ELTC/H2-14	Socket, 3+4 pole (16 A), supply cable with Schuko plug	0620002
ELTC/H3-14	Socket, 5-pole (20 A), supply cable without plug	0620003

Wiring diagram



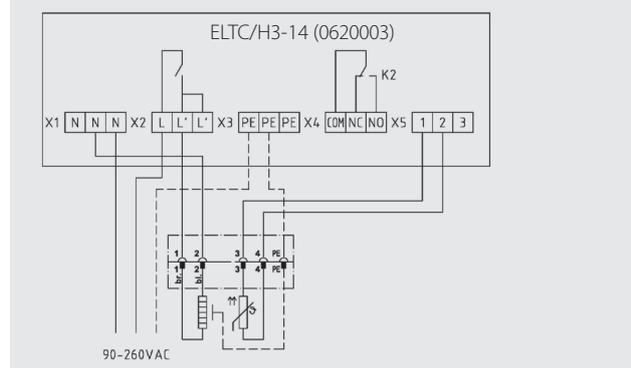
Wiring diagram

3- + 4-pole



Wiring diagram

5-pole



Sensors and display: It is possible to use two types of sensors, either Pt100/2-wire or Pt100/3-wire. Optional display of °C or °F values. In case of use of a Pt100/2-wire unit the actual temperature value can be corrected. Range +/- 10K or +/-18F, respectively. In case of use of a Pt100/3-wire unit the temperature is automatically corrected. Also suitable for use with ELTF-PTEX 1 and 2 sensor.

Relay configuration: relay 1: regulator, relay 2: alarm / temperature reached

Temperature alarm: If the actual value deviates from the preset limit values, an alarm is given and transmitted via alarm relay K2.