Micro-processor Operated Temperature Controller

The micro-processor operated ELTC-41 is specially designed for temperature control. The unit works with two temperature-sensors Pt100 or two thermocouples type K input with two individual programmable output relays. Current and voltage input and RS485 interface with ModBus protocol available. Frontpanel mounting.

Advantages:

- LED-Display up to -25 °C
- Programmable -50 up to +400 °C
- For switching 16 A resistive load
- Alarm contact
- Pt100 with 2 or 3 wires, thermocouple type K, optional configuration

Applications:

- Industrial Applications
- Mechanical, electrical and plumbing (MEP)
- Heat tracing on pipes, valves and vessels
- Tankcontainer

Type **ELTC-41**



Technical Information

Type ELTC-41

Data

Operating voltage	100..240 V AC, 50/60 Hz, +/-10 %
Power consumption	<= 5 W
Analog input	1 x power input (4...20 mA), 1 x voltage input (0...10 V)
Interface	1 x RS 485 (Mod-bus protocol)
Switching capacity, relay 1	16 A close contact (heating)
Switching capacity, relay 2	8 A, changeover contact (alarm)
Sensor connection	2 x Pt100 2 or 3-wire or 2 x thermocouple type K, optional configuration
Temperature range	Pt100 input -60...400 °C, thermocouple -50...999 °C
Control range	Pt100 input -50...390 °C, thermocouple -50...950 °C
Control mode	2-level controller
Hysteresis	+/- 0,5 K, +/- 0,5 % with Pt100, +/- 2 K, +/- 0,5 % with thermocouple Ttype K
Operating temperature	-25 up to +55 °C
Storage temperature	-25 up to +60 °C
Temperature indicator	3 digits
Display	LED, red
IP rating	IP 54 front
Mounting	Frontpanel mounting 70 x 30 cm, installation depth 78 mm, fixing through brackets
Front dimensions	75 x 35 mm

Sensors and display: It is possible to use different types of sensors, either Pt100/2-wire, Pt100/3-wire or thermocouples type K. 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 +/- 10 K or +/-18 °F, 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 alarm: If the actual value deviates from the preset limit values, an alarm is given and transmitted via alarm relay K2.

Type	Art. No.
ELTC-41	0620041