



At a glance

Applications



Frost protection



Temperature maintenance



Silos, containers, tanks



Pipelines, valves, pumps

- › Industry
- › Building technology

Advantages

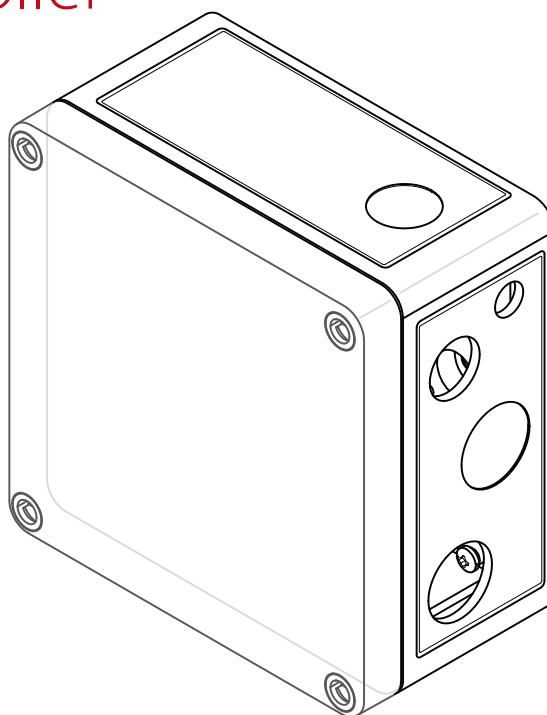
- › Wall mounting
- › LED display
- › Programmable 0 to +390 °C
- › Switches 20 A resistive load
- › Alarm contact (configurable)
- › Pt100 in 2- & 3-wire circuit
- › Up to 2 trace heaters can be connected

Approvals



ELTC-14-NA

Electronic temperature controller



The eltherm Series ELTC 14X electronic temperature controllers are designed for monitoring and control of heat tracing circuits. The temperature controller comes complete with a single circuit 20A switching output and additional 8A alarm relay. The controller is designed to operate with 3-wire or 2-wire Pt100 RTD temperature sensors (optionally supplied by eltherm).

ELTC-14 series controllers are supplied fully integrated in weather-proof enclosures, suitable for wall mounting, complete with transparent cover to allow for viewing and access to the front panel and user interface of the controller.

Accessories:

- 2 x screw con. M25 (6-13mm), 2x seal (2x6mm), 2 x O-ring f. M25,
- 2 x screw con. M20 (6-12mm), 2x O-ring f. M20,
- 1 x screw con. M12 (3-6.5mm), 1x O-ring f. M12,
- 1 x locknut M25
- 1 x locknut M20

Checklist

Temperature sensors

ELTF-PT.1	Pt100 2-wire, CL PVC, length = 5 m	0650001
ELTF-PT.31	Pt100 2-wire, CL fluoropolymer, length = 5 m	0650002

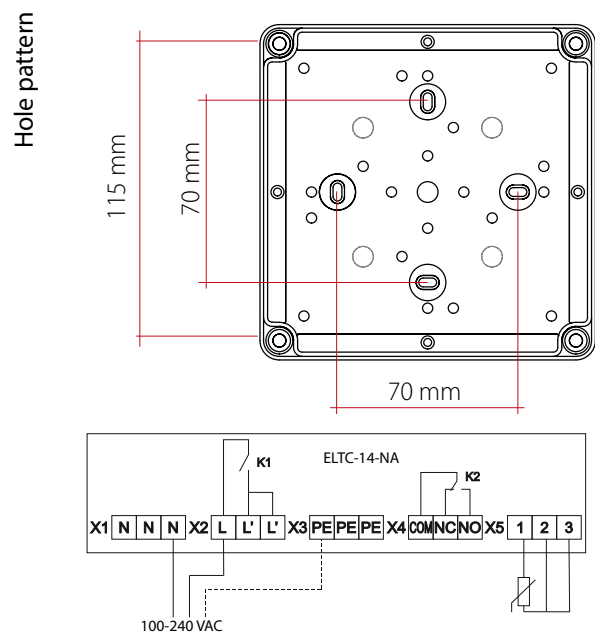
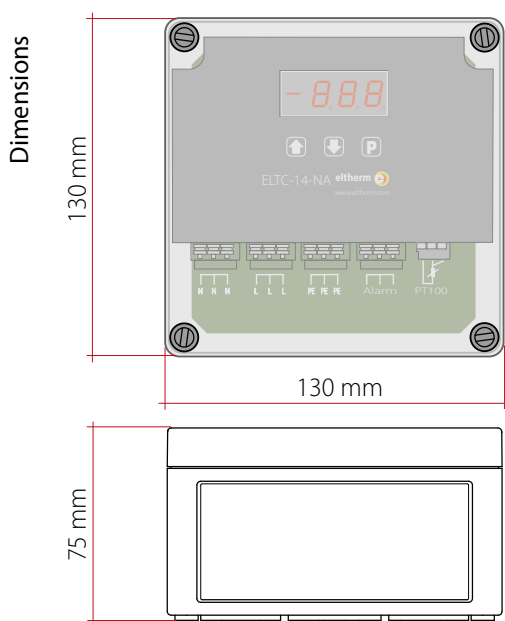
Technical Specifications

Operating voltage	100 to 240 V AC, 50/60 Hz
Power consumption	max. 5W
Switching capacity Relay 1	20 A hybrid relay
Switching capacity Relay 2	8 A changeover contact (alarm)
Ambient temperature	-13 °F to 131 °F / -25 °C to +55 °C
Storage temperature	-22 °F to 140 °F / -30 °C to +60 °C
Setpoint temperature range	-58 °F to 752 °F / -50 °C to +400 °C
Measuring range	32 °F to 734 °F / 0 °C to 390 °C
Accuracy	± 1K, ± 2 digits (RTD, Pt100)
Sensor Input	RTD (Pt100 2-wire & Pt100 3-wire)*
Display	LED red
Housing material	Polycarbonate, grey; transparent cover
Housing dimensions	5" x 5" x 3" (130 x 130 x 75 mm), WxHxD
Protection	IP 65 (NEMA 4 equivalent)
Mounting	Wall mount
Weight	approx. 1.3lbs (0.6 kg)

* **Sensor and display:** 2 different sensor types can be used, Pt100/2-wire or Pt100/3-wire, and values can be displayed either as °C or °F. When using a Pt100/2-wire, the actual temperature value can be corrected. Range +/- 10K or +/- 18F. When using the Pt100/3-wire, the temperature is corrected automatically.

Relay configuration: Relay 1: Controller relay, relay 2: Alarm relay: Alarm / temp. reached

Temperature alarm: If the measured actual value deviates from the pre-set limit value, an alarm is triggered and passed on using the K2 relay as an alarm relay.



Ordering Information

Type	Description	Item no.
ELTC-14-NA	Standard: Set with cable glands, reductions & blind plugs	0620007