

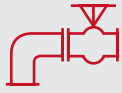


At a glance

Applications



Pipelines



valves, pumps



Silos, containers, tanks

- › Industrial plants and facilities
- › Chemical industry
- › Pharmaceutical industry
- › Plastics industry
- › Building technology

Advantages

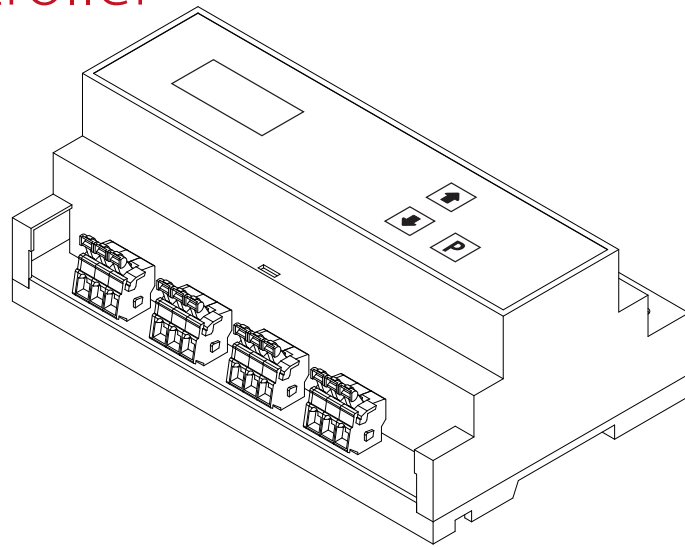
- › Intelligent, proportional adaptation to ambient temperatures
- › Efficiency and energy saving (up to 75%)
- › LED display operable up to -25 °C
- › Programmable up to -70 °C
- › 20A resistive load with hybrid relay
- › Suitable for Pt100 with 2 or 3 wires

Approvals



ELTC-24P

Electronic temperature controller



Intelligent adaptation to ambient temperature for energy savings

The ELTC-14P/-24P is eltherm's „intelligent“ electronic temperature controller range which proportionally adapts to the ambient temperature and reacts proportionally to it, rather than just switching on/off. The higher the ambient temperature, the less energy is supplied to the heating circuit. This achieves energy savings of up to 75%, especially in large, complex plants and with varying degrees of winter cold. It also enhances greater temperature stability in the pipes. The ambient temperature is measured by a Pt100 sensor, processed by the microcontroller and shown in the digital display. Appropriate output relays are switched automatically. The duty cycle depends on actual ambient temperatures and temperature to maintain (set point).

Checklist

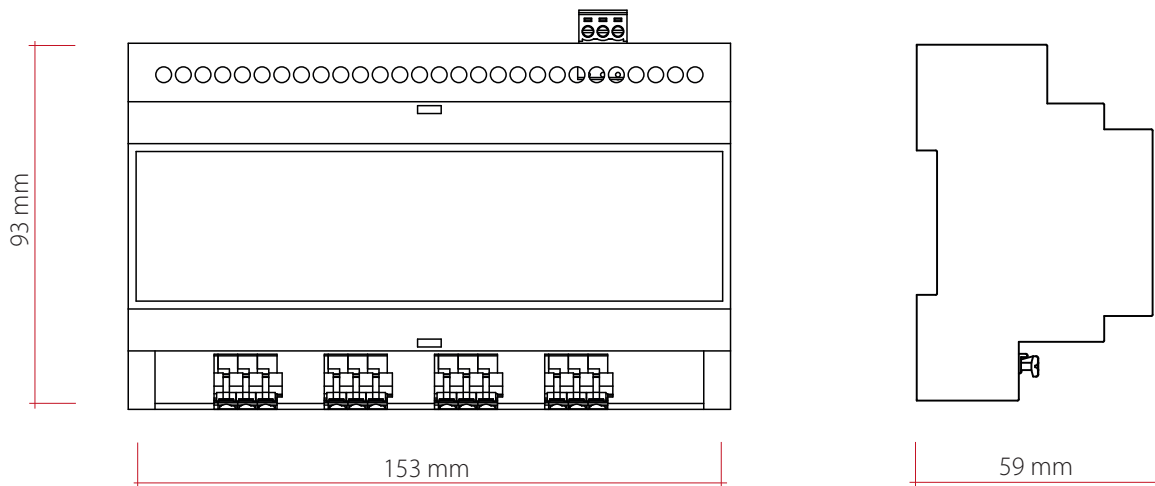
Temperature sensors

ELTF-PT.1	Pt100 2-wire, cable PVC, length = 5 m	0650001
ELTF-PT.15	Pt100 3-wire, cable fluoropolymer, length = 3 m	0650070
ELTF-PT.33	Pt100 2-wire, cable fluoropolymer, length = 5 m	0650000

Technical Specifications

Operating voltage	90-260 VAC 50/60 Hz
Power consumption	max. 4 mA < 5 VA
Switching capacity Relay 1	20 A with Hybridrelais (Heater)
Switching capacity Relay 2	8 A Wechsler (Alarm)
Ambient temperature	-25 °C up to +55 °C
Storage temperature	-30 °C up to +60 °C
Setpoint temperature range	0 °C up to 400 °C
Sensor connection	Pt100 2-wire & Pt100 3-wire
Display range	-60 bis +99 °C
Housing material	Polycarbonate, black
Housing dimensions	153 x 93 x 59 mm (WxHxD)
Protection	IP 54 from the front, IP 30
Mounting	DIN rail TS
Weight	approx. 0.2 kg

Dimensions



Ordering Information

Type	Operating voltage	Item no.
ELTC 24P	90-260 VAC 50/60 Hz	0620011