At a glance

Applications

Temperature maintenance

- industry
- Laboratory
- Technical centre
- High-temperature range

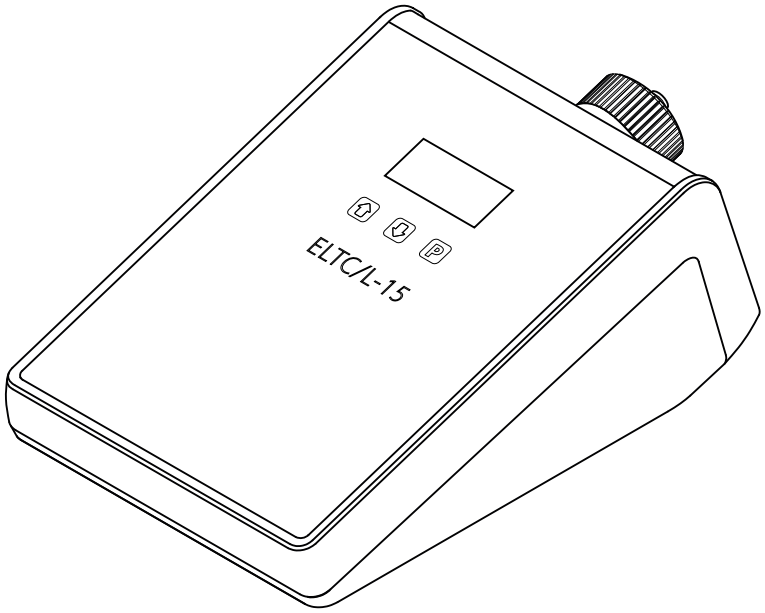
Advantages

- Connection to the socket
- Direct connection of heating tapes, heating sleeves or heated hoses
- LED display up to -25 °C
- Programmable 0 to +950 °C
- Switches 10 A resistive load
- Ramp function

Approvals

ELTC/L-15

Electronic temperature controller



The plug-in ELTC/L-15, specially developed for laboratory applications, is a controller with ramp function and digital display in a stable desk-top housing.
The temperature measured with a Pt100 temperature tracer or type K thermocouple is processed and displayed by a micro controller.
After comparison of actual and set-point value the output relay is switched in keeping with the configuration.

On the back, there is a power connection for direct connection to a socket, a built-in socket for connection of ready-made heating tapes and a built-in socket for connection of either a Pt100 or a type K thermocouple.

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
ELTF-Te4.1	Thermocouple type K, cable silicone, length = 5 m	0670019
Installation sockets		
Cable plug	4-pole, 400V/16A, with cable strain relief Pg 9	2554807008
Diode plug	For Pt100, 3-pole	2550200001

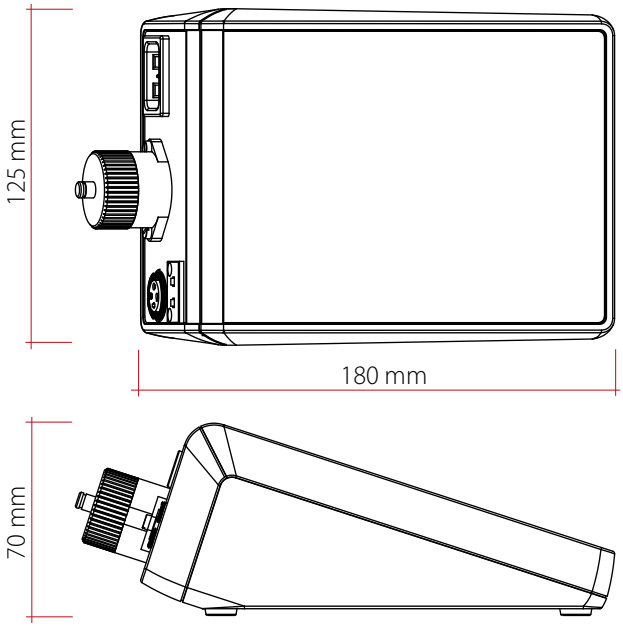
Technical Specifications

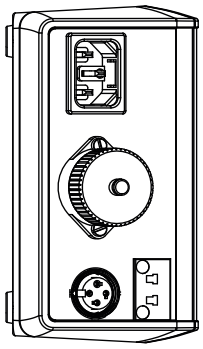
Operating voltage	230 VAC 50/60 Hz
Power consumption	Max. 5 VA
Switching capacity	10 A N/O contact
Ambient temperature	-25°C up to +55°C
Storage temperature	-30°C up to +60°C
Setpoint temperature range	-50°C up to +999°C
Measuring range	0°C up to +950°C
Protection	IP 20
Tracer connection	Pt100 2-wire & Pt100 3-wire, thermocouple type K*
Display	LED red
Housing material	ABS, white
Housing dimensions	125 x 70 x 180 mm (WxHxD)
Mounting	Desktop device
Weight	approx. 0.7 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.

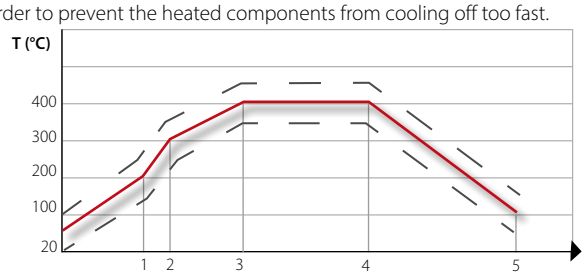
Relay configuration: Relay 1: Regulating relay

Dimensions





Ramp function:
Specific heating and defined cooling with counter heating in order to prevent the heated components from cooling off too fast.



Ordering Information

Type	Description	Item no.
ELTC/L-15	Temperature controller to 950°C, desk-top device with ramp function	0621501

8643020621501 Data sheet for ELTC/L-15 EN - subject to technical changes without notice.

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