

LC4 Laboratory Temperature Controller

Temperature Controller

JULABO Temperature Controllers fulfill temperature-dependent measurement, control, safety and monitoring tasks. Modern control technology, space-saving design and high operating comfort are particular advantages. The units offer MULTI-DISPLAY (LED) and a splash-proof keypad. High and low temperature warning functions with an interval tone (patented) ensure safe operation. The built-in RS232 interface enables online communication with a PC. Typical applications: heating mantles, heating baths and heating mats.



Your advantages

- PID temperature control
- Bright, large LED display
- Constant indication of setpoint and actual values
- Splash-proof keypad
- Adjustable high temperature cut-off
- RS232 interface

Technical Data

Order No.	9700140
Model series	LC Series
Category	Laboratory Temperature Controllers
Working temperature range (°C)	-50 ... +350
Temperature stability (°C)	±0.05
Setting / display resolution	0.1
Temperature Display	2x LED
Heating capacity (kW)	2
External Pt100 sensor connection	integrated
Digital interface	RS232 Optional: Profibus
Ambient temperature	5...40 °C
Dimensions W x L x H (cm)	17 x 17 x 16
Weight (kg)	3
Power requirement V / Hz / A	230/50-60/10
Temperature stability in external system °C	>± 0.05
LED display / resolution °C	2 / 0.01 °C
Safety sensor control	1 x Pt100
Working sensor	1 x Pt100
Maximum connection wattage	2
Available voltage versions	230 V / 50 Hz

Characteristics

Display



Several values at a glance

Large Multi-Display (LED), easy to read across the room, for actual value and up to 3 setpoints, warning functions, high temperature cut-off, selected pump stages (resolution 0.01/0.1 °C)

Operation



Clearly structured

Comfortable, splash-proof keypad for setpoint adjustment, high/low temperatures, timer and shaking frequency (SW models)



Serial connection

RS232 interface for PC connection, e.g. for data communication and recording of measured values

Warning & Safety Functions



Early warning system for high/low temperature limits

Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function

Temperature Control



Precise

PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2$ °C



High measuring accuracy

'Absolute Temperature C alibration' for manual compensation of a temperature difference, 1-point calibration

Technical Features



Control from the external application

External Pt100 sensor connection for precise measurement and control directly in the external application