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 frequeny (SW models)

Temperature Control

Precise
PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 °C

High measuring accuracy
'**A**bsolute **T**emperature **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

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

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