

Temperature Controllers are designed for measuring, controlling and monitoring of any electrically heated equipment in laboratories and pilot plant stations.

Benefits:

- Simple to operate
- Splash-proof keypad
- High temperature stability
- Bright MULTI-DISPLAY (LED)
- Display resolution 0.1 °C or 0.01 °C, resp.

They provide connections for:

- 1 or 2 working sensors
- 1 safety sensor
- 1 Schuko socket for the external device
- digital and analog interfaces
- LCD-Display, backlight: offers interactive and user-friendly operation on LC6 and PG6 programmer
- High/low temperature warning functions
- Adjustable high temperature cut-off, visible via MULTI-DISPLAY
- Audible and optical alarms in case of a disturbance



LC4

with 2 LED displays
1. MULTI-DISPLAY for actual value and adjustment of setpoint, warning and safety values
2. Constant indication of setpoint



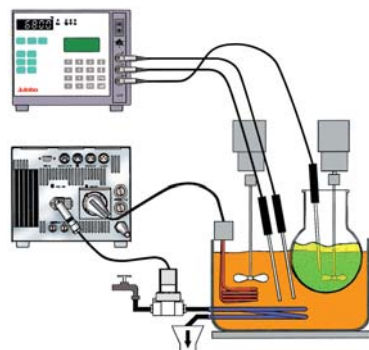
LC4-F

with separate operating elements for working and safety circuits and 4 LED displays for
• Actual value and adjustment of setpoint and warning values (MULTI-DISPLAY)
• Constant indication of setpoint
• Constant indication of actual safety value and adjustment of safety setpoint
• Constant indication of safety setpoint
• Analog inputs and outputs



LC6 programmable controller

with 1 LED and 1 LCD display
• 2 working sensors for different measurement locations (cascade-controller)
• Analog inputs and outputs for 0...10 V or 0...20 mA/4...20 mA
• 'Stakei' connection for direct tap water cooling control
• Integrated programmer for 6 x 60 program steps



Applications

Precise and reliable temperature control for

- Heating mantles, heating collars
- Oil baths in combination with distillation/pilot plants
- Control for indirect tap water cooling with solenoid valve (see illustration above)

JULABO Order No.	JULABO Model	Adjustable temp. range °C	Temp. stab. in external system °C	LED display/resolution °C	LCD display/resolution °C	Working sensor	Safety sensor	Max. connection watt. kW ¹⁾	Dimensions W x L x H cm	Weight kg
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Temperature Controllers

Technical features (see fold-out page): **PID2 ATC Pt100 RS232**

9 700 140	LC4	-50...+350	> ± 0.05	2 / 0.1	--	1 Pt100	1 Pt100	2 / 1	17 x 17 x 16	3
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Low profile design (4 x LEDs)

Technical features: **PID3 ATC Pt100 RS232**

9 700 142	LC4-F	-50...+350	> ± 0.03	4 / 0.1	--	1 Pt100	1 Pt100	2 / 1	25 x 20 x 10	3
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Programmable Controller

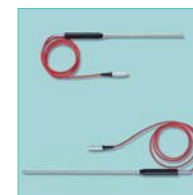
Technical features: **ICC TCF ATC Pt100 Pt100 RS232 RS485 6 x 60**

9 700 160	LC6	-100...+400	> ± 0.03	1 / 0.01	1 / 0.01	2 Pt100	1 Pt100	3 / 1	21 x 18 x 18	4
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¹⁾ At voltage 230V/50-60Hz / 115V/50-60Hz

Accessories

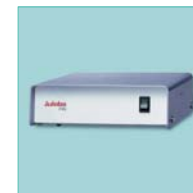
Order No.	Description	Suitable for
8 981 003	200 x 6 mm dia., stainless steel, 1.5 m cable	LC4, LC4-F, LC6
8 981 005	200 x 6 mm dia., glass, 1.5 m cable	
8 981 006	20 x 2 mm dia., stainless steel, 1.5 m cable	
8 981 010	300 x 6 mm dia., stainless steel, 1.5 m cable	
8 981 013	600 x 6 mm dia., stainless steel/Teflon coated, 3 m cable	
8 981 014	1200 x 6 mm dia., stainless steel/Teflon coated, 3 m cable	
8 981 103	3.5 m Extension cable for Pt100 sensor	
8 981 030	TCCB Thermo-Couple Converter Box	
9 790 000	MVS solenoid valve controller for tap water cooling	LC4, LC4-F
8 980 700	Solenoid valve for tap water cooling	LC4, LC4-F, LC6



Pt100 sensors



LC4-F, MVS controller, solenoid valve



PBI Profibus DP Interface Box

Additional accessories

8 970 020	Stand rod, 200 x 12 mm	LC4
8 970 021	Stand rod system, 200 x 12 mm	LC6
8 980 142	Y-adapter cable for connecting 1 dual Pt100 sensor to 2 Lemos sockets (conforming to NAMUR)	

Software / Lab automation

8 901 102	'EasyTemp' control software (free download www.julabo.de)	LC4, LC4-F, LC6
8 901 105	'EasyTemp Professional' control software, incl. USB dongle	
8 980 073	RS232 interface cable, 2.5 m	LC6
8 900 110	USB Interface adapter cable	
8 900 015	PBM Profibus DP Master	LC6
8 900 003	PB-3 Option: integrated Profibus DP	
8 980 030	PBI Profibus DP Interface Box	LC4, LC4-F

For MORE information on lab automation and software solutions, please see page 57.

PG6 programmer, remote controller

This model is suitable for analog and digital control of circulators and recirculating coolers.

The PG6 can also be used as remote controller, particularly for JULABO circulators located in a fume cabinet, where it is quite difficult for the user to get easy access.

Benefits:

- Programming of temperature and time-dependent processes
- 6 x 60 program steps
- RS232 interface



Accessories

8 980 090	Digital control cable, 2.5 m
8 980 092	Analog control cable, 2.5 m

Applications

- JULABO 'HighTech' heating and refrigerated circulators
- Recirculating coolers 'SemiChill'
- Heating and cooling devices of different makes

JULABO Order No.	JULABO Model	Adjustable temp. range °C	Adjustment temp./time	LED display/resolution °C	LCD display/resolution °C	Analog outputs Voltage / Current V / mA	Total power consumption W	Dimensions W x L x H cm	Weight kg
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Programmer

Technical features (see fold-out page): **RS232**

9 750 060	PG6	-99.9...+400	digital	1 / 0.1	1 / 0.1	0...10V or 0...20/4...20mA	100	21 x 18 x 18	4
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Voltage: Available in 230V/50-60Hz or 115V/50-60Hz