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JUMO ecoTRON T Digital thermostat

with LC display for mounting on DIN rail

Brief description

The **JUMO ecoTRON T** is a compact digital thermostat in 90mm x 22.5mm format for simple temperature control (heating or cooling). The temperature is acquired through a Pt100, Pt1000 or KTY2X-6 resistance thermometer in 2-wire circuit and shown on a 3-digit display.

The switching status is signaled via an LED.

The instrument is operated from three keys on the front panel. The electrical connection is by screw terminals.



Type 701050/ ...

Block structure

Input (configurable)

- Pt100
- Pt1000
- KTY2X-6
in 2-wire circuit

Supply

230V AC +10/-15%
115V AC +10/-15%
24V DC +15/-15%
12V DC +15/-15%

JUMO ecoTRON T

Output

Floating changeover
contact 10A/250V

LC display

3-digit display for representation
of measurement and parameter

Features

- Heating or cooling operation can be configured
- Adjustable switching differential
- Parameter level protected by code
- Each parameter can be individually enabled for operation
- 10A relay
- Simple, space-saving installation
- Time-delayed controller activation after power ON can be selected, e. g. for staggered starting of several items of equipment
- Limit monitoring
- 3-digit LC display, with special characters for °C and °F
- UL approval pending

Indications and controls

LC display	3-digit 9-segment display with symbols for the temperature unit, 6mm high	
Status indication	LED K1 lights up when output relay is energized.	
Keys	Ⓟ Programming ▲ Increase setpoint or parameter value (dynamically) ▼ Decrease setpoint or parameter value (dynamically)	

Technical data

Measurement input

Designation	Range	Accuracy	Over/underrange
Pt100 EN 60 751	-200 to +500 °C	0.1%	is recognized
Pt1000 DIN	-200 to +500 °C	0.1%	
KTY2X-6	-50 to 150 °C	1%	
Connection circuit	2-wire circuit via screw terminals, for wire cross-sections up to 2.5 mm ²		
Sampling time	250 msec		
Input filter	1st order digital filter; filter constant adjustable from 0 to 99.9sec		
Lead compensation	adjustable via the parameter Lead compensation resistor $\square F_{LR}$		
Temperature offset	adjustable via the parameter Temperature offset $\square F_{LT}$		
Special features	display can be switched to °F (Fahrenheit)		

Ambient conditions

Ambient temperature range	0 to +55 °C
Storage temperature range	-40 to +70 °C
Temperature error	≤100ppm per °C of range
Climatic conditions	≤75 % rel. humidity annual mean, no condensation

Relay output

Changeover contact	150,000 operations at 10A 250V 50Hz resistive load 800,000 operations at 3A 250V 50Hz resistive load
Connection	via screw terminals, for wire cross-sections up to 2.5 mm ²

Supply

Supply voltage	230V AC +10/-15 %, 48 — 63Hz 115V AC +10/-15 %, 48 — 63Hz 12V DC +15/-15 % 24V DC +15/-15 %
Power consumption	<1VA

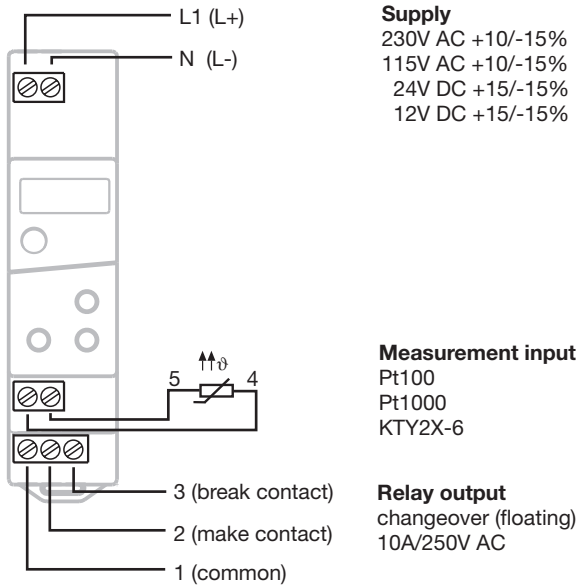
Housing

Material	polycarbonate
Mounting	on 35mm x 7.5mm DIN rail to EN 50 022
Operating position	unrestricted
Weight	approx. 110gm
Protection	IP20
Flammability class	UL 94 V0

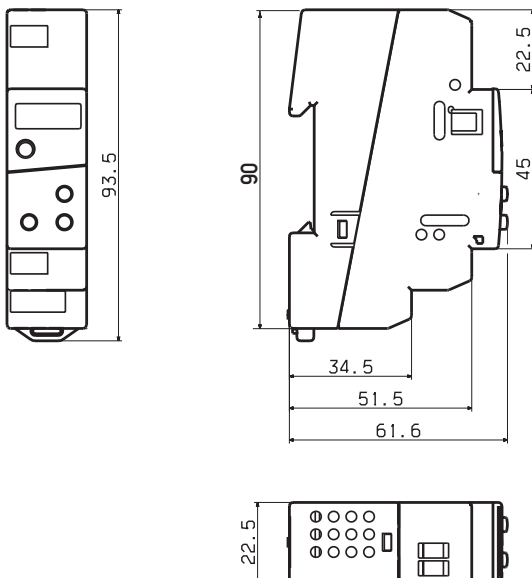
Electrical data

Data backup	EEPROM
Electromagnetic compatibility interference emission immunity to interference	EN 61 326 Class B to industrial requirements
Electrical safety	to EN 61 010, Part 1, overvoltage category III, pollution degree 2

Connection diagram



Dimensions



Order details

- (1) **Basic version**
 701050 JUMO ecoTRON T
- (2) **Measurement input (programmable)**
 003 Pt100 in 2-wire circuit
 005 Pt1000 in 2-wire circuit
 606 KTY2X-6
 888 programmable, with factory setting
- (3) **Supply**
 02 230V AC +10/-15% 48 — 63Hz
 05 115V AC +10/-15% 48 — 63Hz
 18 24V DC +15/-15%
 20 12V DC +15/-15%

Order code

Order example

☐ factory-set

(1) / (2) - (3)
 701050 / 888 - 02