



701

Electronic Temperature Controller 701

Special Features

- In rail-mount enclosure
- Relay contact 10 A switching capacity
- Three-digit LCD display
- Indication in °C or °F selectable
- Protected parameter level
- Safe data storage in case of power failure

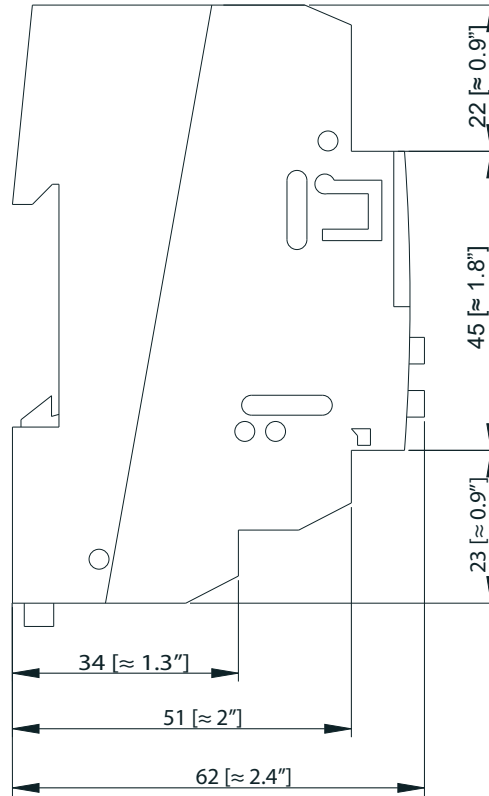
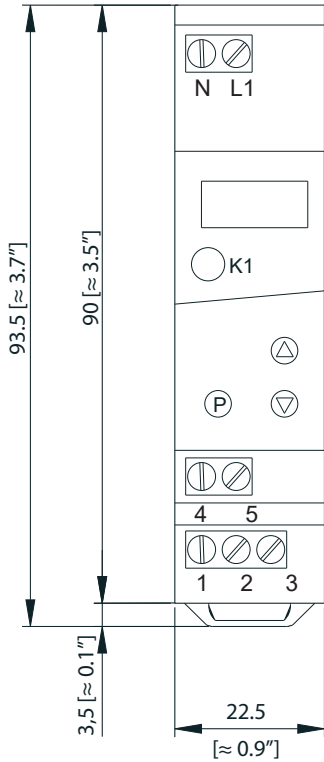
Application

The electronic two-point temperature controller 701 is especially designed for controlling the electrically heated sample lines series 3/4/5-N/M/H and PSP-4M (-W).

Description

The electronic two-point temperature controller 701 is mounted in a rail-mount housing. The temperature sensor input is developed for a two-wire PT100 sensor and is equipped with a protection against short circuit and sensor breakage.

The desired operating temperature can be set by using the respective keys. The actual value is indicated via a three-digit display and the controller function via LED. Switching hysteresis and zero point correction can be set via program functions.



Terminals:

- L1 / N : Power IN
- 4 / 5 : PT100 IN
- 1 : Contact OUT NC
- 2 : Contact OUT MC
- 3 : Contact OUT NO

Technical Data

Temperature controller type	701 230 V	701 115 V
Part No.	01B8240	01B8240a
Temperature control range	Adjustable in range -200 to +600 °C [-328 to +1112 °F], adjusted at works to 0 to +200 °C [32 to 392 °F]	
Switching capacity	250 V AC/10 A resistive load with relay contact	
Control mode	On-off controller	
Temperature sensor input	PT100 DIN; 2-conductor with short circuit and sensor breakage protection	
Ambient temperature	0 to +55 °C [32 to 131 °F], for close mounting 0 to +40 °C [32 to 104 °F]	
Storage temperature	-40 to +70 °C [-33.8 to 158 °F]	
Switching hysteresis	Adjusted at works to 5 °C [41 °F]	
Accuracy of control	±0.1 % of full-scale value	
Electrical connection	Terminals 2.5 mm ²	
Power supply*/power consumption	230 V ±10 %, 50/60 Hz, 2 VA	115 V 50/60 Hz, 2 VA
Housing version	Rail-mount housing EN 50022	
International protection type	IP20 EN 60529	
Housing material	Polycarbonate	
Dimensions (H x W x D)	90 x 22.5 x 62 mm [≈ 3.5" x 0.9" x 2.4"]	
Weight	110 g [0.3 lb]	
Mounting position	As needed	
Climatic resistance	≤ 75 % rel. humidity average/year without occurrence of dew	
Electrical security	DIN EN 61010 part1 excess voltage category III, contamination level 2	
Electromagnetic compatibility	EN 61326	
Interference transmission	Class B	
Interference resistance	Industrial requirement	
Indications	Actual value, three-digit LCD, switching state relay via LED	

*Galvanic separation from measuring input