



## Electronic Temperature Controller 701

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### Special Features

- In rail mounting enclosure
- Relay contact 10A switching capacity
- Big three-digit LCD indication
- Indication selectable for °C or °F
- Protected parameter level
- Sure data storage in case of power failure

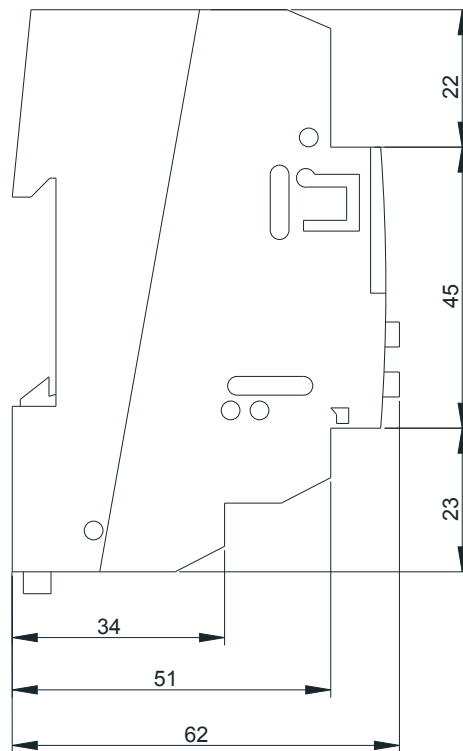
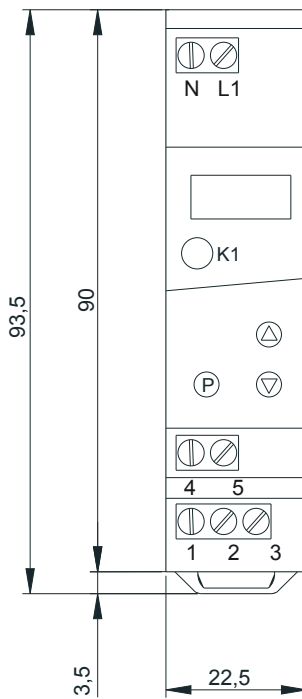
### M&C® Application

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

### M&C® Description

The 701 two-step electronic temperature controller is mounted in a rail mounting housing. The temperature sensor input is developed for a two-wire PT-100 sensor and is equipped with a protection against short circuit and sensor breach.

The desired operating temperature can be set by using the respective keys. The actual value is indicated via three-digit display and the controller function via LED.



Terminals:

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

M&C Technical Data

| Temperature controller type       | 701 230V  | 701 115V          |
|-----------------------------------|---|-------------------|
| Part No.                          | 01 B 8240   | 01 B 8240a        |
| Temperature control range         | adjustable in range -200 to +600°C, adjusted at works to 0 to +200°C  |                   |
| Switching capacity                | 250VAC/10 A resistive load with relay contact                         |                   |
| Control mode                      | on-off controller   |                   |
| Temperature sensor input          | PT100 DIN; 2-conductor with sensor breakage status                    |                   |
| Ambient temperature               | 0 °C to +55 °C, for close-to-close moutage 0 - +40°C                  |                   |
| Storage temperature               | -40 °C to +70 °C  |                   |
| Switching hysteresis              | adjusted at works to 5°C  |                   |
| Accuracy of control               | ± 0,1% of final value   |                   |
| Electrical connection             | terminals 2,5 mm <sup>2</sup>   |                   |
| Power supply* / Power consumption | 230V +/-10%, 50/60Hz, 2VA   | 115V 50/60Hz, 2VA |
| Housing version                   | rail mounting housing EN 50022  |                   |
| International protection type     | IP 20 EN60529   |                   |
| Housing material                  | Polycarbonate   |                   |
| Dimensions in mm                  | H90xW22,5xD62 mm  |                   |
| Weight                            | 110g  |                   |
| Mounting position                 | any way you like  |                   |
| 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     | EN61326   |                   |
| Interference transmission         | class B   |                   |
| Resistance to jamming             | industrial requirement  |                   |
| Indications                       | actual value, three-digit LCD, switching state relais via LED         |                   |

\*galvanic separation to measuring input