

# M48I

- ANALOGUE CONTROLLER
- UNIVERSAL POWER SUPPLY
- ON/OFF AND PD CONTROL
- RANGES FROM 100 TO 1200°C



## FEATURES

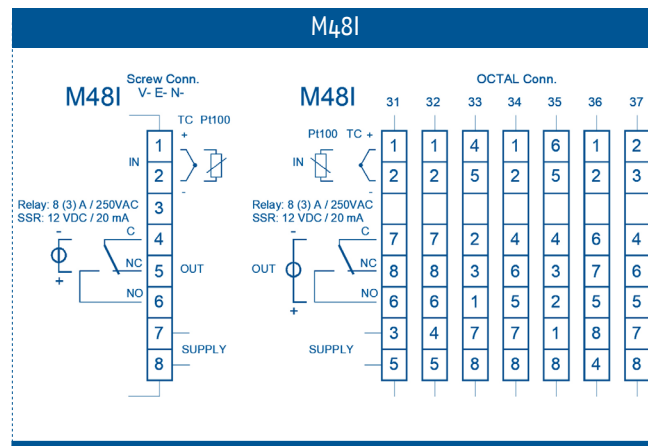
| INPUTS                          |  | M48I                                                                                                        |
|---------------------------------|--|-------------------------------------------------------------------------------------------------------------|
| 3 different configurations      |  | Thermocouples J                                                                                             |
|                                 |  | Thermocouples K                                                                                             |
|                                 |  | Thermoresistances Pt 100 IEC 2 wires                                                                        |
| Accuracy                        |  | ±2% f.s.                                                                                                    |
| OUTPUT                          |  |                                                                                                             |
| One                             |  | OUT 1: Relay 8A-AC1 (3A-AC3)/250Vac or 12 Vdc for SSR driving                                               |
| FUNCTIONAL                      |  |                                                                                                             |
| Control                         |  | ON/OFF, PD                                                                                                  |
| Ranges                          |  | Ranges available from 100 to 1200°C:                                                                        |
|                                 |  | 0... 100°C (Pt100 only)                                                                                     |
|                                 |  | 0... 200°C                                                                                                  |
|                                 |  | 0... 250°C                                                                                                  |
|                                 |  | 0... 350°C                                                                                                  |
|                                 |  | 0... 600°C                                                                                                  |
|                                 |  | 0... 800°C                                                                                                  |
|                                 |  | 0... 1000°C                                                                                                 |
|                                 |  | 0... 1100°C                                                                                                 |
|                                 |  | 0... 1200°C                                                                                                 |
| GENERAL                         |  |                                                                                                             |
| Power supply                    |  | 24... 240 Vac ±10% (48/63 Hz)                                                                               |
| Power consumption               |  | 3.5 VA approx.                                                                                              |
| Dimensions / Weight             |  | 48x48 mm (1/16 DIN) - depth 70.6 mm (+7; +7.5; +10 depending on the type of terminal block) / approx. 300 g |
| Connections                     |  | Fixed or plug-in screw terminal block for 0.2... 2.5 mm <sup>2</sup> /AWG 24... 14 cables or Octal socket   |
| Mounting                        |  | Flush in panel in 45.5 x 45.5 mm hole                                                                       |
| Front protection degree         |  | IP 54, mounted on panel with gasket                                                                         |
| Operating / storage temperature |  | 0... +50°C (32... +122°F) / -10... +60°C (14... +140°F)                                                     |
| Operating humidity              |  | <95 RH% without condensation                                                                                |
| Conformity                      |  | Directive EMC 2004/108/CE (EN 61326), Directive BT 2006/95/CE (EN 61010-1)                                  |

## HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

| M48I                                  | CODE |
|---------------------------------------|------|
| <b>POWER SUPPLY</b>                   |      |
| 24... 240 Vac                         | U    |
| <b>INPUT</b>                          |      |
| J                                     | J    |
| K                                     | K    |
| PT100 2 wires                         | P    |
| <b>OUTPUT</b>                         |      |
| Relay                                 | R    |
| 12 V for SSR driving                  | T    |
| <b>RANGES</b>                         |      |
| 0... 100°C (PT100 only)               | 1    |
| 0... 200°C                            | 2    |
| 0... 350°C                            | 3    |
| 0... 600°C                            | 4    |
| 0... 800°C                            | 5    |
| 0... 1000°C                           | 6    |
| 0... 1200°C                           | 7    |
| 0... 250°C                            | 8    |
| 0... 1100°C                           | 9    |
| <b>CONTROL</b>                        |      |
| ON/OFF                                | 0    |
| PD                                    | P    |
| <b>ACTION</b>                         |      |
| Heating                               | H    |
| Cooling                               | C    |
| <b>CONNECTIONS</b>                    |      |
| Plug-in type (complete)               | E-   |
| Plug-in type (fix part only)          | N-   |
| Screw type                            | V-   |
| Octal - Electrical drawing 31 (TC)    | 31   |
| Octal - Electrical drawing 32 (Pth00) | 32   |
| Octal - Electrical drawing 33 (TC)    | 33   |
| Octal - Electrical drawing 34 (TC)    | 34   |
| Octal - Electrical drawing 35 (TC)    | 35   |
| Octal - Electrical drawing 36 (TC)    | 36   |
| Octal - Electrical drawing 37 (Pth00) | 37   |

## CONNECTIONS



## DIMENSIONS

