

- Accepts J or K type Thermocouples ( Type PT100 can be made available on demand)
- 2 operational modes ON/OFF or PD (Proportional Derivative )
- 8 Pin Plug-in, Relay Output, 1/16 Din, Panel mount

## Specifications:

Supply Voltage: .....230/240Vac, .....50/60Hz , .... +/- 15%  
 115Vac, ..... 50/60Hz , ..... +/- 15%  
 24VAC, .....50/60Hz, ..... +/- 15%

Max Power Consumption ..... 2 VA

## Inputs:

Thermocouple .....IAW IEC 584.....J or K types  
 Max line resistance:.....150Ω

Derating with regard.....Per 10°C Variation in ..... ≤ 1 °C  
 to setpoint in Ambient Temp.  
 Per 10Ω of line .....≤ 1 °C  
 Resistance Variation  
 Per 10% variation ..... ≤ 0.1 %  
 In supply voltage

PT100.....IAW IEC 751..... 2 Wire  
 Derating following line resistance .....1 °C / 0.4Ω

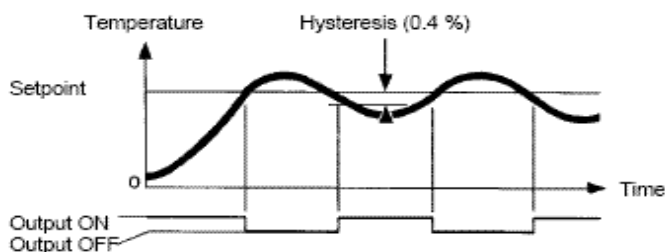
Derating with regard.....Per 10°C Variation in ..... ≤ 1 °C  
 to setpoint in Ambient Temp.  
 Per 10% variation ..... ≤ 0.1 %  
 In supply voltage

## Operation

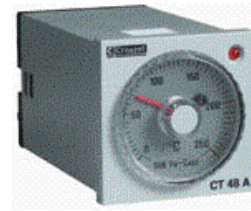
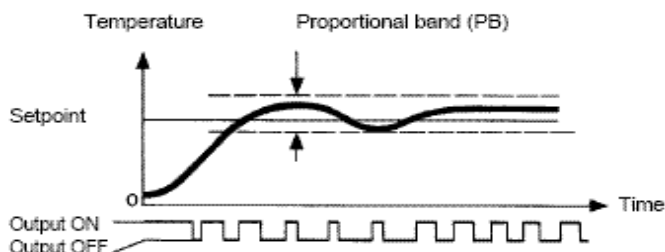
ON/OFF output.....Fixed Hysteresis.....0.4%  
 PD output.....Fixed proportional.....3%  
 Band (% of full scale)  
 Period proportional.....22 s  
 hand

## Function diagrams

### ON/OFF output action



### Proportional derivative (PD) action



## Type

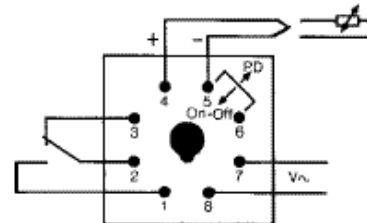
### Part Number

| Temperature Range / Scale | Divisions | Thermocouple |            |
|---------------------------|-----------|--------------|------------|
| 230/240Vac                |           |              |            |
| 0 to + 250 °C             | 5 °C      | Type J       | 89 420 047 |
| 0 to + 450 °C             | 10 °C     | Type J       | 89 420 067 |
| 0 to + 650 °C             | 10 °C     | Type J       | 89 420 097 |
| 0 to + 800 °C             | 20 °C     | Type K       | 89 420 077 |
| 0 to + 1000 °C            | 20 °C     | Type K       | 89 420 087 |
| 115Vac                    |           |              |            |
| 0 to + 250 °C             | 5 °C      | Type J       | 89 420 045 |
| 0 to + 450 °C             | 10 °C     | Type J       | 89 420 065 |
| 0 to + 650 °C             | 10 °C     | Type J       | 89 420 095 |
| 0 to + 1000 °C            | 20 °C     | Type K       | 89 420 085 |
| 24Vac                     |           |              |            |
| 0 to + 250 °C             | 5 °C      | Type J       | 89 420 041 |
| 0 to + 450 °C             | 10 °C     | Type J       | 89 420 061 |
| 0 to + 650 °C             | 10 °C     | Type J       | 89 420 091 |
| 0 to + 800 °C             | 20 °C     | Type K       | 89 420 071 |
| 0 to + 1000 °C            | 20 °C     | Type K       | 89 420 081 |

## Outputs:

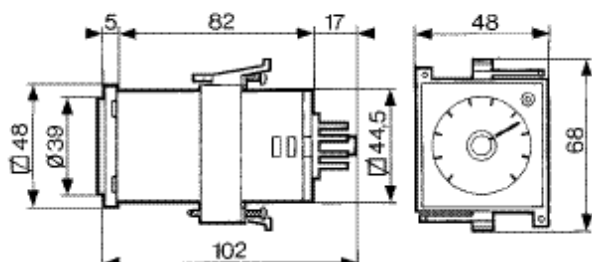
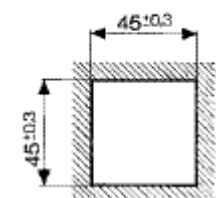
Contact relay.....SPDT.....5 A / 250Vac max  
 Mechanical life.....3 x 10<sup>5</sup> operations  
 Scale resolution.....80mm  
 Display accuracy.....J – K (full scale)..... ± 2%  
 PT 100 (full scale).....± 1.5%  
 Temperature limits.....Operational.....0 °C + 55 °C  
 Storage.....-20 °C + 70 °C  
 Front Panel Rating .....IP 41  
 Case.....IP 20  
 Weight.....350 g

## Connections



## Dimensions - mounting

## Panel cut-out



Products and specifications subject to change without notice.

Consult factory for application assistance.