

# ANALOGUE TEMPERATURE CONTROLLERS

TEMPATRON

## TC4800 ON/OFF & PD TEMPERATURE CONTROLLER



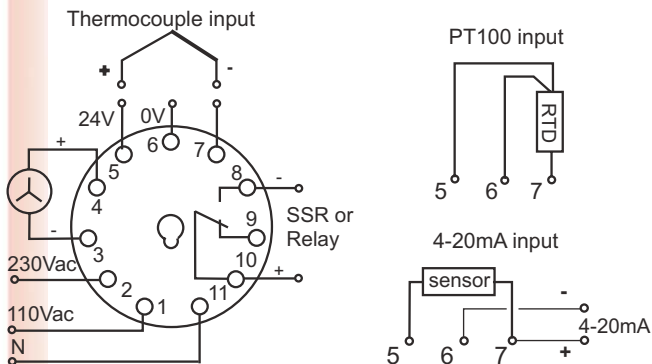
- \* Dial lock
- \* J, K T/c, PT100 or 4 - 20mA inputs
- \* On/off or PD control action
- \* Deviation LEDs plus meter output
- \* Dual 110/230Vac supply input
- \* Relay or SSR drive output options

The TC4800 range of temperature controllers is available in on/off or proportional + derivative (PD) control options, operating from a range of sensors. A 4 - 20mA input type also enables them to be used for the control of processes other than temperature. Of particular note is the dial lock which can be used to prevent tampering.

### SPECIFICATION

Supply voltage:	110/230(220-240)Vac @ 50/60 Hz or 24Vac/dc
Power drain:	4VA max.
Scale accuracy:	+/- 2% of full scale
Scale range:	See part number below
Input sensor:	J, K, R or T thermocouple, 3-wire PT100 or 4-20mA
Max ext. resist:	T/couple:100 , PT100: 5 per wire
Control band:	On/Off: Hyst. = 0.5% (1% TC486*) of full scale Prop: PB = 4% to 10% of full scale
Cycle time:	20 secs (PD model only)
Output rating:	Relay: SPCO, 5A/240Vac resistive SSR: 30mA/24Vdc
Electrical life:	100,000 ops at rated load
Deviation output:	+/- 50 Amps
Ambient range:	-10 to 50°C non-condensing
Approvals:	Conforms to CE emc EN50081-1 & EN50082-1 and low voltage EN61010-1 directives
Weight:	200gms

### CONNECTION DIAGRAM

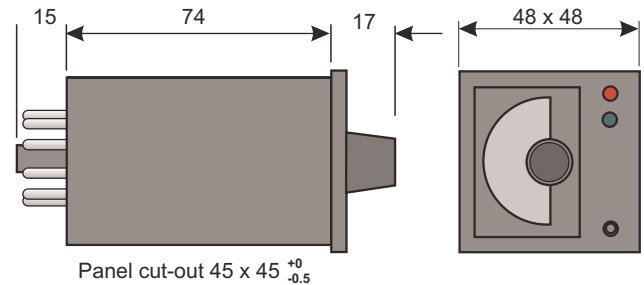


### Part Numbering Options : TC48 A B - C D -110/230VAC

A	Control	On/off PD Latch On/off 4-20mA	1 3 5 6
B	Action/ Output	Rev/relay Dir/relay Rev/SSR Dir/SSR	0 1 2 3
C	Sensor	K t/couple J t/couple T t/couple R t/couple PT100 3 wire 4-20 mA	0 1 2 3 5 6
D	Scale	J, K 0 to 200°C J, K 0 to 400°C K 0 to 600°C K 0 to 800°C K 0 to 1200° T -100 to 200°C T -170 to 30°C R 0 to 1600°C PT100 -100 to 200°C PT100 -50 to 150°C PT100 0 to 100°C PT100 0 to 200°C PT100 -50 to 100°C	1 2 3 4 5 0 6 0 0 1 2 3 4

For other temperature ranges, please contact our sales office.

### DIMENSIONS



### STANDARD ITEMS

Input	Mode	Range	Part Number
K T/c	On/Off	0 to 200°C	TC4810-01-110/230VAC
K T/c	On/Off	0 to 400°C	TC4810-02-110/230VAC
K T/c	On/Off	0 to 800°C	TC4810-04-110/230VAC
K T/c	On/Off	0 to 1200°C	TC4810-05-110/230VAC
J T/c	On/Off	0 to 200°C	TC4810-11-110/230VAC
PT100	On/Off	-50 to 150°C	TC4810-51-110/230VAC
PT100	On/Off	0 to 100°C	TC4810-52-110/230VAC
PT100	On/Off	0 to 200°C	TC4810-53-110/230VAC
K T/c	PD	0 to 200°C	TC4830-01-110/230VAC
K T/c	PD	0 to 400°C	TC4830-02-110/230VAC
K T/c	PD	0 to 600°C	TC4830-03-110/230VAC

Wiring socket - panel mount	AZ511
Wiring socket - DIN rail	AZ611