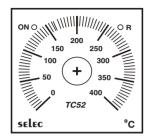
DP087-V01

TC52 / TC52HP(BLIND) Operating Instructions



CONTROL ACTION SELECTION

Given below is the comparison of control features of ON-OFF Vs Proportional, to aid user in selection of mode.

CONTROL ACTION	RELAY OPERATING FREQUENCY	OVER/ UNDER SHOOT ABOUT SET POINT
ON - OFF	SLOW (as per process)	GREATER
PROPORTIONAL	` ' ' /	MINIMUM

SPECIFICATION

INPUT: (Factory set)

Thermocouple (T/C): Type J - Fe/K, K - Cr/Al

RTD: PT-100

Range (in °C): 200,400.

Inbuilt cold junction compensation for thermocouple type models.

ACCURACY:

Setting: ±3% of full scale Control: +0.5% of full scale

CONTROL ACTION (USER SELECTABLE):

1) TIME PROPORTIONAL: Proportional band: 3% of full scale. Cycle time: 12 seconds

2) ON - OFF: Dead band: 0.5% of full scale

SENSOR BREAK CONDITION: Relay off

OUTPUT: Relay: 1C/O relay contacts TC52 - 7A@230V AC, resistive load

TC52HP - 10A@230V AC, resistive load (Internal relay rated @ 30A) (SSR drive available on request)

TEMPERATURE SETTING:

By front panel knob on a calibrated dial.

INDICATION: 1) Relay status 2) Power ON

POWER: @50/60 Hz

TC52 - 230V AC

TC52HP - 90 to 270V AC/DC

OPERATING TEMPERATURE: 0 - 50°C

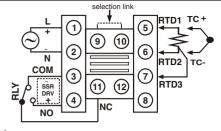
HUMIDITY: 95% RH

HOUSING: ABS plastic

WEIGHT: TC52 - 200ams. TC52HP - 175ams.

Outline Dimens	Panel Cutout Dimensions (in mm)	
48	45	46

WIRING DIAGRAM (ON-OFF/ PROPORTIONAL)

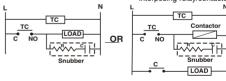


- 1 Live
- 2 Neutral
- 3 COM of relav
- 4 NO of relay
- 5 TC+ / RTD1
- 6 TC- / RTD2
- 7 RTD3
- 9 &10 Open for ON-OFF / Short for Proportional 11 NC of Relay (Not applicable for TC52HP)

TYPICAL CONNECTIONS FOR LOADS

1) For load current less than 0.5A

2) For bigger loads; use interposing relay/contactor Contactor



NOTE: Use snubber as shown above to increase life of internal relay of temperature controller.

(Specifications subject to change as development is a continuous process).

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