



**Inputs : J, K, Pt100**  
**0 / 1 - setpoint**  
**85~265 V AC SMPS**  
**Control : ONOFF and Time Proportional**  
**Accuracy : 0.1% of full scale 1 C, typical**  
**Sensor break indication**

**SPECIFICATIONS**

All specifications at ambient of 25 °C, unless specified otherwise

**INPUTS**

**Input types**  
 Thermocouple J, K  
 RTD Pt100  
**Range limits** See Table 1  
**Accuracy** See Table 1  
**Cold junction compensation** Automatic  
**Temperature coefficient of accuracy** ± 0.5% of span / 25 °C  
**Units** °C (For °F, contact us)

**OUTPUTS**

**No. of relays** 0/1 electromagnetic relay  
**Relay contact type** NO-C-NC  
**Relay contact rating** 5A / 230V AC, resistive  
**SSR drive** 12 V DC drive signal for external SSR  
**Mutual isolation between input/output/supply** 1 KV AC / 1 minute

**INDICATION**

**Display** 4 digit, 7 segment 0.3" (7.6 mm) red LED display  
**Status indication** LED for relay status

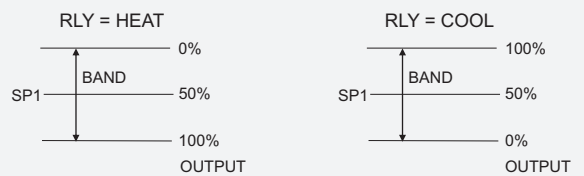
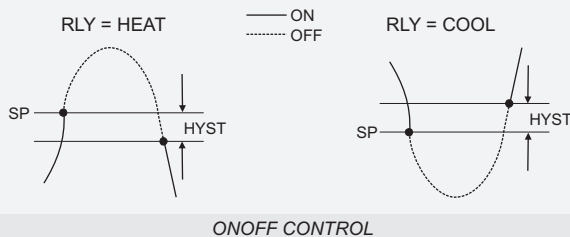
**PROGRAMMABLE PARAMETERS**

**Input** Full range (See Table 1)  
**Setpoint** 0.1 to 99.9  
**Hysteresis / band** 1 for TC  
**Resolution** 0.1, 1 for Pt100  
**Bias** -99.9 to 99.9  
**High scale** Full range (See Table 1)  
**Low scale** Full range (See Table 1)  
**Control functions** ONOFF, Time Proportional Control (TPC)  
**Cycle time for TPC** 1 ~ 99 seconds  
**Relay logic** a. Heat b. Cool  
**Proportional offset** -99.9 to 99.9

**OTHER**

**Keyboard** Tactile, 3 keys  
**Enclosure construction** Plug-in (circuit removable without affecting terminal wiring)  
**Dimensions (in mm)** 48(H) x 48(W) x 100(D)  
**Mounting** Panel mount  
**Panel cutout** 44 x 44 mm  
**Supply voltage** 85~265 V AC, 50/60 Hz  
**Power consumption** 3 watts maximum  
**Operating ambient temperature** 0 ~ 50 °C  
**Relative humidity** Below 90%, non condensing

**RELAY LOGIC**



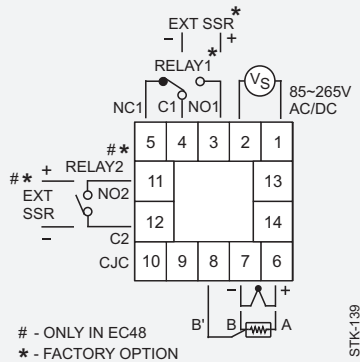
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TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C / EU)	WORST CASE ACCURACY (°C / EU)
	LOW SCALE	HIGH SCALE	LOW SCALE	HIGH SCALE		
Iron / Constantan (J)	-99	750	0	750	± 1	± 3
Chromel / Alumel (K)	-99	1350	-50	1200	± 1	± 3
Pt100, 3-wire	-99	850	-50	850	± 0.5 *	± 2.0

\* ± 0.1°C in the range -50 to +400 °C

### CONNECTION DIAGRAM



### ORDERING INFORMATION

2165

A	Configuration	
	Relay	SSR drive
00	0	0
01	1	0
02	0	1

Product url : [www.radix.co.in/ptc.htm](http://www.radix.co.in/ptc.htm)

## OTHER LOW COST PRODUCTS

### ONOFF CONTROLLER EC96

96x96x100 2 SETPOINTS



### PID CONTROLLER P96

96x96x100 2 SETPOINTS



### ONOFF CONTROLLER TC48

48x48x112 2 SETPOINTS ANALOG OUTPUT



### ONOFF CONTROLLER EC48

48x48x112 2 SETPOINTS



### PID CONTROLLER P48

48x48x112 2 SETPOINTS



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INSTRUMENTS T : + 91 22 26730101 x 701 F : + 91 22 26731891 E : sales@radix.co.in  
SENSORS T : + 91 22 26731826 x 732 F : + 91 22 66910029 E : sensors@radix.co.in  
GAUGES T : + 91 22 26731826 x 733 F : + 91 22 66910029 E : gauges@radix.co.in  
AUTOMATION C : 0-9322405471 E : automation@radix.co.in

SALES INQUIRIES

**1800-22-radix**  
**1800-22-7234**

Radix Electrosystems Pvt Ltd, B-14, 2nd Floor, Ghanshyam Indl Estate, Veera Desai Road, Andheri (West), Mumbai - 400 053, India  
Tel : + 91 22 26730101 Fax : + 91 22 26731891 Email : sales@radix.co.in www.radix.co.in

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