

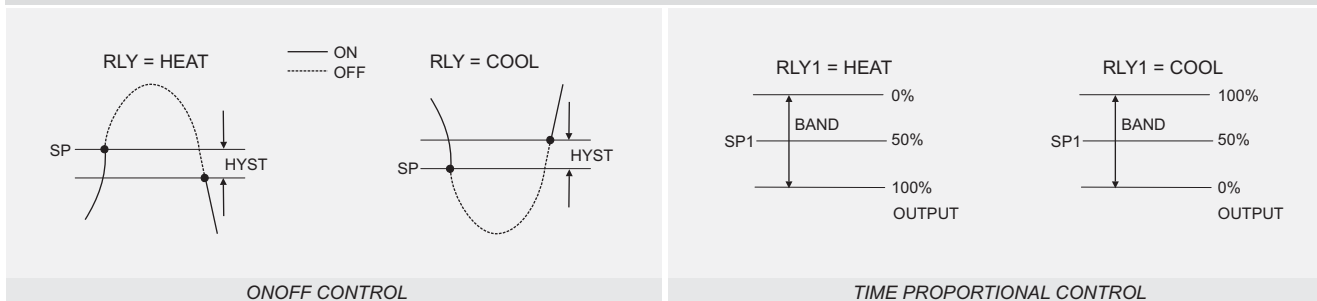


- J, K, Pt100
- 0 / 1 / 2 setpoints
- 85~265 V AC SMPS
- Functions : ONOFF and Time Proportional
- Accuracy :  $\pm 0.1\%$  of full scale  $\pm 1\text{ }^\circ\text{C}$ , typical
- Sensor break indication

SPECIFICATIONS

<b>Input</b>		<b>Programmable Parameters</b>	
<b>Input types</b> Thermocouple RTD	J, K Pt100	<b>Setpoint</b>	Full range (See Table 1)
<b>Range limits</b>	See Table 1	<b>Hysteresis / band</b>	0.1 to 99.9 $^\circ\text{C}$
<b>Accuracy</b>	See Table 1	<b>Resolution</b>	0.1, 1 (0.1 for Pt100 only)
<b>Temperature coefficient of accuracy</b>	$\pm 0.5\%$ of span / 25 $^\circ\text{C}$	<b>High scale</b>	Full range (See Table 1)
<b>Cold junction compensation</b>	Automatic	<b>Low scale</b>	Full range (See Table 1)
<b>Units</b> Pt100, Thermocouple	$^\circ\text{C}$ (For $^\circ\text{F}$ , contact us)	<b>Control functions</b>	ONOFF, Time Proportional Control (TPC) (RLY1) ONOFF (RLY2)
<b>Outputs</b>		<b>Cycle time for TPC</b>	1 ~ 99 seconds
<b>No. of relays</b>	0/1/2 electromagnetic relays	<b>Relay logic</b>	a. Heat b. Cool
<b>Relay contact type</b>	NO-C-NC	<b>Proportional offset</b>	-99.9 to 99.9 $^\circ\text{C}$ (RLY1)
<b>Relay contact rating</b>	5A / 230V AC, resistive	<b>Other</b>	
<b>SSR drive</b>	12 V DC drive signal for external SSR	<b>Keyboard</b>	Tactile, 3 keys
<b>Mutual isolation between input/output/supply</b>	1 KV AC / 1 minute	<b>Enclosure construction</b>	Plug-in (circuit removable without affecting terminal wiring)
<b>Indication</b>		<b>Dimensions (in mm)</b>	96(H) x 96(W) x 100(D)
<b>Display</b>	Upper : 4 digit, 7 segment 0.56" (14.2 mm) red LED display Lower : 4 digit, 7 segment 0.56" (14.2 mm) green LED display	<b>Mounting</b>	Panel mount
<b>Status indication</b>	2 LEDs for relay status	<b>Panel cutout</b>	92 x 92 mm
		<b>Supply voltage</b>	85~265 V AC, 50/60 Hz
		<b>Power consumption</b>	3 watts maximum
		<b>Operating ambient temperature</b>	0 ~ 50 $^\circ\text{C}$
		<b>Relative humidity</b>	Below 90%, non condensing

RELAY LOGIC



**TABLE 1**

SENSOR / INPUT	RANGE LIMITS (°C)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C)	WORST CASE ACCURACY AT 30 °C (°C)
	LOW SCALE	HIGH SCALE	LOW SCALE	HIGH SCALE		
Iron / Constantan (J)	-99	760	0	760	± 1	± 3
Chromel / Alumel (K)	-99	1372	-50	1200	± 1	± 3
Pt100, 3-wire	-99	850	-50	850	± 1 *	± 2

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

**CONNECTION DIAGRAM**

