



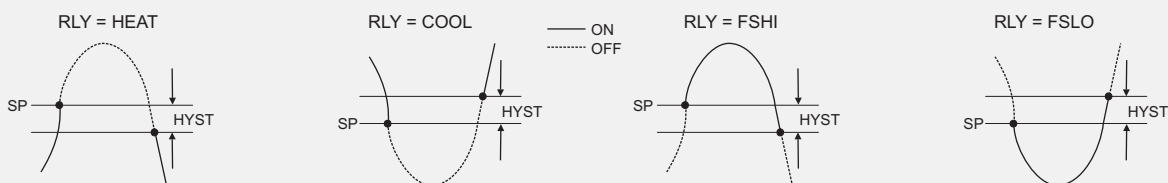
- Input : J, K, Pt100
- 1 / 2 setpoints
- 85~265 V AC SMPS
- Functions : PID control (Relay 1), ONOFF control (Relay 2)
- Autotuning for PID parameters
- Accuracy : $\pm 0.1\%$ of full scale $\pm 1\text{ }^\circ\text{C}$, typical
- Sensor break indication
- Plug-in design

SPECIFICATIONS

Input	
Input types	J, K Pt100
Thermocouple	See Table 1
RTD	See Table 1
Range limits	Automatic
Accuracy	$\pm 0.5\%$ of span / $25\text{ }^\circ\text{C}$
Cold junction compensation	
Temperature coefficient of accuracy	
Units	$^\circ\text{C}$ (For $^\circ\text{F}$, contact us)
Pt100, Thermocouple	
Outputs	
No. of relays	1/2 electromagnetic relays
Relay contact type	NO-C-NC (RLY1) NO-C-NC (RLY2)
Relay contact rating	5A / 230V AC, resistive
SSR drive	12 V DC drive signal for external SSR
Indication	
Display	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
Status indication	2 LEDs for relay status

PID Control	
PID parameter values	Determined by 'Autotune' (value not available to user)
PID control type	For 'Heat' type of applications (single output)
Programmable Parameters	
Setpoint	Full range (See Table 1)
Hysteresis / Band	0.1 to 99.9
Bias	-99.9 to 99.9
Resolution	User selectable
	0.1, 1
Control functions	PID (RLY1) / ONOFF Control (RLY2)
Relay logic	a. Heat b. Cool c. Full scale high alarm d. Full scale low alarm
Other	
Keyboard	Tactile, 3 keys
Enclosure construction	Plug-in (circuit removable without affecting terminal wiring)
Dimensions (in mm)	96(W) x 96(H) x 100(D)
Mounting	Panel mount
Panel cutout	92 x 92 mm
Supply voltage	85~265 V AC, 50/60 Hz
Power consumption	3 watts maximum
Operating ambient temperature	0 ~ $50\text{ }^\circ\text{C}$
Relative humidity	Below 90%, non condensing

RELAY LOGIC



ONOFF CONTROL (Relay2)

TABLE 1

SENSOR / INPUT	RANGE LIMITS (°C / EU)		RANGE IN WHICH ACCURACY IS SPECIFIED		TYPICAL ACCURACY AT 30 °C (°C / EU)	WORST CASE ACCURACY AT 30 °C (°C / EU)
	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	± 0.5 *	± 2.0

* ± 0.1°C in the range -50 to +400 °C

CONNECTION DIAGRAM

