



- Inputs : J, K, Pt100
- 85~265 V AC SMPS
- Control : PID Control
- Autotuning for PID parameters
- Accuracy :  $\pm 0.1\%$  of full scale  $\pm 1^\circ\text{C}$ , typical
- Sensor break indication
- Plug-in design
- 96 x 96 x 100 mm

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

<p><b>INPUT</b></p> <p>Input types</p> <p>Thermocouple</p> <p>RTD</p> <p>Range limits</p> <p>Resolution</p> <p>Accuracy</p> <p>Cold junction compensation</p> <p>Temperature coefficient of accuracy</p> <p><b>OUTPUT</b></p> <p>No. of relays</p> <p>Relay contact type</p> <p>Relay contact rating</p> <p>SSR drive</p> <p>Mutual isolation between input/output/supply</p> <p><b>INDICATION</b></p> <p>Display</p> <p>Status indication</p>	<p>J, K</p> <p>Pt100</p> <p>See Table 1</p> <p>1°</p> <p>See Table 1</p> <p>Automatic</p> <p><math>\pm 0.5\%</math> of span / 25°C</p> <p>1 electromagnetic relay</p> <p>NO-C-NC</p> <p>5A / 230V AC, resistive</p> <p>12 V DC drive signal for external SSR</p> <p>1 KV AC / 1 minute</p> <p>3 digit, 7 segment 0.56" (14.2 mm) red LED display</p> <p>LED for relay status</p>	<p><b>PID CONTROL</b></p> <p>PID parameter values</p> <p>PID control type</p> <p><b>PROGRAMMABLE PARAMETERS</b></p> <p>Input</p> <p>Setpoint</p> <p>Autotune</p> <p><b>OTHER</b></p> <p>Keyboard</p> <p>Enclosure construction</p> <p>Dimensions (in mm)</p> <p>Mounting</p> <p>Panel cutout</p> <p>Supply voltage</p> <p>Power consumption</p> <p>Operating ambient temperature</p> <p>Relative humidity</p>	<p>Determined by 'Autotune' (values not available to user)</p> <p>For 'Heat' type of applications (single output)</p> <p>Full range (See Table 1)</p> <p>ON, OFF</p> <p>Tactile, 3 keys</p> <p>Plug-in (circuit removable without affecting terminal wiring)</p> <p>96(H) x 96(W) x 100(D)</p> <p>Panel mount</p> <p>92 x 92 mm</p> <p>85~265 V AC, 50/60 Hz</p> <p>3 watts maximum</p> <p>0 ~ 50 °C</p> <p>Below 90%, non condensing</p>
--	--	---	---

**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	$\pm 1$	$\pm 3$
Chromel / Alumel (K)	-99	999	-50	999	$\pm 1$	$\pm 3$
Pt100, 3-wire	-99	850	-50	850	$\pm 1$	$\pm 2$

**CONNECTION DIAGRAM**

