

1 & 2 SETPOINTS, PUSHWHEEL SWITCHES



Universal input : 8 thermocouples, Pt100, 0/4~20 mA, 0~10 V DC
1 & 2 setpoints
Isolated 0/4~20 mA or 0~10 V DC retransmission output

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

<p>INPUT</p> <p>Thermocouple B, E, J, K, N, R, S, T</p> <p>RTD Pt100</p> <p>Linear input 4~20 mA, 0~20 mA, 0~10 V DC</p> <p>Load resistance for 0/4~20 mA input 250 Ω, internally provided</p> <p>Transmitter supply 22 V DC, Nominal, 30 mA max</p> <p>Range limits See Table 1</p> <p>Accuracy See Table 1</p> <p>Cold junction compensation Automatic</p> <p>Temperature coefficient of accuracy ± 0.5% of span / 25 °C</p> <p>Units</p> <p>Pt100, Thermocouple °C (For °F, contact us)</p> <p>Linear EU</p> <p>SETPOINTS</p> <p>No. of setpoints TCP961 : 1 TCP962 : 2</p> <p>Setpoint settings TCP961 : 1 x 4-digit pushwheel switches TCP962 : 2 x 4-digit pushwheel switches</p> <p>OUTPUTS</p> <p>No. of relays TCP961 : 1 TCP962 : 2</p> <p>Relay contact type NO-C-NC</p> <p>Relay contact rating 5A / 230V AC, resistive</p> <p>SSR drive 12 V DC drive signal for external SSR</p> <p>Retransmission output Current or voltage</p> <p>Current output 4~20 mA / 0~20 mA isolated from input</p> <p>Maximum load for current output 600 ohms</p> <p>Voltage output 0~10 V DC isolated from input</p> <p>Load for voltage output >10 Kohms</p> <p>Mutual isolation between input/output/supply 1 KV AC / 1 minute</p>	<p>INDICATION</p> <p>Display 4 digit, 7 segment 0.56" (14.2 mm) red LED display</p> <p>Status indication 2 LEDs for relay status</p> <p>PROGRAMMABLE PARAMETERS</p> <p>Input 0.1 to 99.9</p> <p>Hysteresis / band -99.9 to 99.9</p> <p>Bias Full range (See Table 1)</p> <p>High scale Full range (See Table 1)</p> <p>Low scale ONOFF, Time Proportional Control (TPC) (Relay1) ONOFF (Relay2)</p> <p>Control functions 1 ~ 99 seconds</p> <p>Cycle time for TPC a. Heat b. Cool</p> <p>Relay logic c. Full scale high alarm d. Full scale low alarm</p> <p>Proportional offset -99.9 to 99.9 (Relay1)</p> <p>OTHER</p> <p>Keyboard Tactile, 3 keys</p> <p>Enclosure construction Plug-in (circuit removable without affecting terminal wiring)</p> <p>Dimensions (in mm) 96(H) x 96(W) x 100(D)</p> <p>Mounting Panel mount</p> <p>Panel cutout 92 x 92 mm</p> <p>Supply voltage a) 85~265 V AC, 50/60 Hz b) 20~35 V DC (factory option)</p> <p>Power consumption 3 watts maximum</p> <p>Operating ambient temperature 0 ~ 50 °C</p> <p>Relative humidity Below 90%, non condensing</p>
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RELAY LOGIC

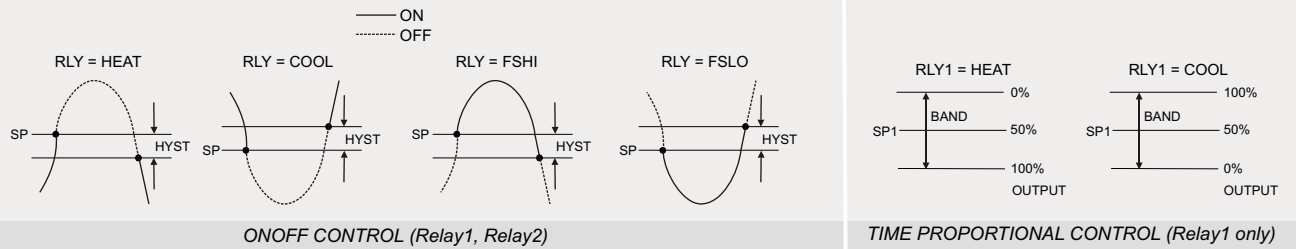
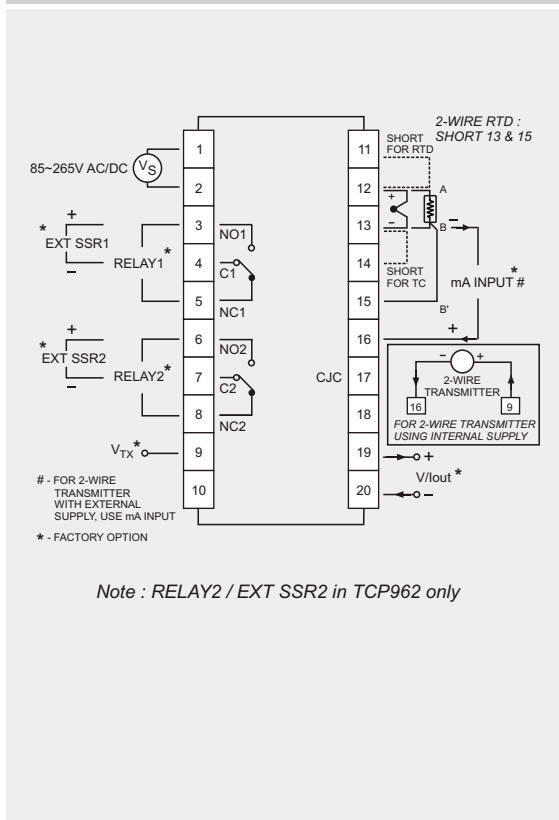


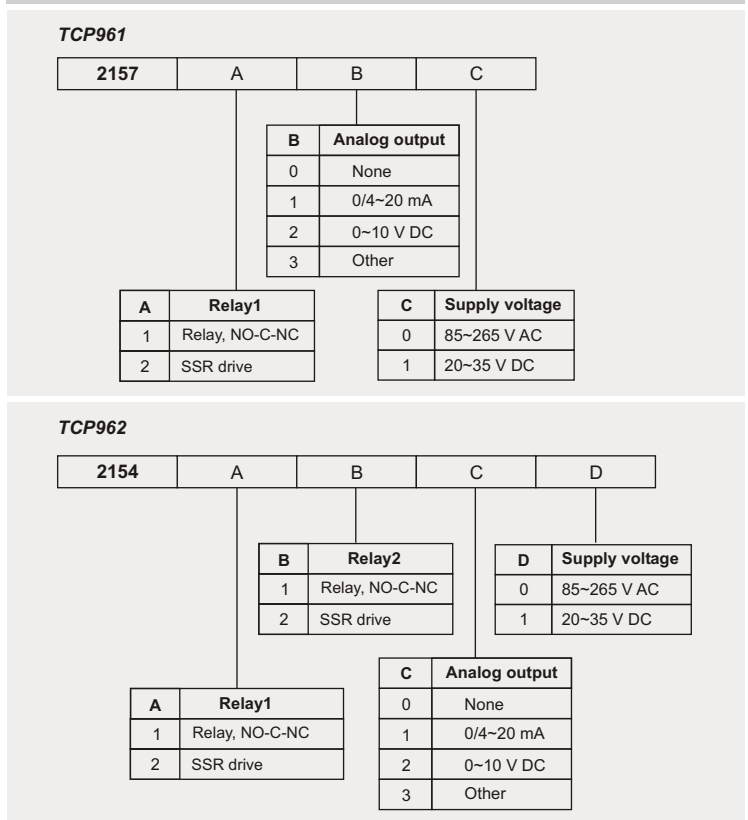
TABLE 1

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)	0	760	0	760	± 1	± 3
Chromel / Alumel (K)	0	1372	0	1200	± 1	± 3
Pt / Pt - 13% Rh (R)	0	1760	0	1760	± 2	± 5
Pt / Pt - 10% Rh (S)	0	1760	0	1760	± 2	± 5
Copper / Constantan (T)	0	400	0	400	± 1	± 3
Nicrosil / Nisil (N)	0	1300	0	1200	± 1	± 3
Pt - 6% Rh / Pt - 30% Rh (B)	400	1820	400	1820	± 3	± 5
Chromel / Constantan (E)	0	900	0	800	± 1	± 3
Pt100, 3-wire	0	850	0	850	± 0.5	± 2.0
Linear 0~20 mA, 4~20 mA, 0~10 V DC	0	9999	0	9999	± 5 EU	± 20 EU

CONNECTION DIAGRAM



ORDERING INFORMATION



SALES INQUIRIES



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