

Temperature control module performance specifications

Item	R60TCRT2TT2	R60TCRT4	R60TCRT2TT2BW	R60TCRT4BW
Number of analog input channels (ch)	4	4	4	4
Usable thermocouple	B, R, S, K, E, J, T, N, U, L, PLII, W5Re/W26Re	-	B, R, S, K, E, J, T, N, U, L, PLII, W5Re/W26Re	-
Usable RTD	Pt100, JPt100	Pt100, JPt100	Pt100, JPt100	Pt100, JPt100
Sampling cycle (4 ch, ms)	250/500	250/500	250/500	250/500
Control output cycle (s)	0.5...100.0	0.5...100.0	0.5...100.0	0.5...100.0
Input impedance (MΩ)	1	1	1	1
Input filter (0: Input filter OFF)	0...100 s	0...100 s	0...100 s	0...100 s
Sensor correction value setting	(-(full scale of input range)) to full scale of input range			
Operation at a sensor input disconnection	Upscale processing			
Temperature control method	PID ON/OFF pulse or two-position control			
Heater disconnection detection	-	-	●	●
Indication accuracy*1				
Ambient temperature 25±5°C	≤ ±0.3%	≤ ±0.3%	≤ ±0.3%	≤ ±0.3%
Ambient temperature 0...55°C	≤ ±0.7%	≤ ±0.7%	≤ ±0.7%	≤ ±0.7%
PID constants range				
PID constants setting	Setting by auto tuning is available.			
Proportional band (P)	<ul style="list-style-type: none"> • When the input range unit is °C or °F: 0 (0.0)...full scale of input range (depending on the decimal point position) • When the input range is another analog input unit: 0.0...1000.0% 			
Integral time (I)	0...3600 s (Set 0 for P control and PD control.)			
Derivative time (D)	0...3600 s (Set 0 for P control and PI control.)			
Transistor output				
Output signal	ON/OFF pulse	ON/OFF pulse	ON/OFF pulse	ON/OFF pulse
Rated load voltage (V DC)	10...30	10...30	10...30	10...30
Maximum load current (A)	0.1/point, 0.4/common	0.1/point, 0.4/common	0.1/point, 0.4/common	0.1/point, 0.4/common
Maximum inrush current	0.4 A, 10 ms	0.4 A, 10 ms	0.4 A, 10 ms	0.4 A, 10 ms
External interface*2				
18-point screw terminal block	●	●	● (2x)	● (2x)

*1. The accuracy is calculated in the following method. For more information, please refer to the relevant product manual. (Only when it is not affected by noise.)
Accuracy (°C) = (full-scale) x (indication accuracy) x cold junction temperature compensation accuracy

*2. For more information about external interface (for applicable options, please refer to the relevant product manual), refer to the options list on page 115.