









Product Overview





Multi-Channel (2, 4 Channel) Modular Type PID Control Temperature Controller [TM Series]

Series	TM2-22RB	TM2-42RB	TM2-22RE	TM2-42RE	TM2-22CB	TM2-42CB	TM2-22CE	TM2-42CE	TM4-N2RB	TM4-N2RE	TM4-N2SB	TM4-N2SE	
Appearances & Dimensions	 <p>CE cRU_{US}</p> <p>[W30×H100×L84.8mm]</p>												
Channel	2 Channel (each channel insulated-Dielectric strength 1,000VAC)								4 Channel (each channel insulated-dielectric strength 1,000VAC)				
Power supply	24VDC												
Allowable voltage range	90 to 110% of rated voltage												
Power consumption	Max. 5W												
Display type	Non-display type Parameter setting & monitoring with external devices (PC or PLC)												
Input type	RTD: DPt100Ω, JPt100Ω 3 wire (allowable line resistance max. 5Ω per a wire) Thermocouple: K, J, E, T, L, N, U, R, S, B, C, G, PLII (13 types)												
Display accuracy	RTD	(PV ±0.5% or ±1°C, select the higher one) ±1digit Max. (for more information, refer to the Specification)											
	Thermocouple												
	CT input	Max. ±5% F.S. ±1digit								—			
	Current output	Max. ±1.5% F.S. ±1digit								—			
Control output	Relay	250VAC 3A 1a					—		250VAC 3A 1a			—	
	SSR	—				Max. 12VDC ±3V 30mA				—		Max. 22VDC ±3V 30mA	
	Current	—				DC 4-20mA or DC 0-20mA selectable (Max. load 500Ω)				—			
Sub output	Relay	250VAC 3A 1a											
	Communication	RS485 Communication output (Modbus RTU)											
Alarm output	250VAC 3A 1a												
Sampling period	50ms (2 channel synchronous sampling)								100ms (4 channel synchronous sampling)				
Control method	Heating, cooling: ON/OFF P PI PD PID Heating&cooling: ON/OFF P PI PD PID												
Reference	H-10 to 17												





Standard PID Control Temperature Controller [TK Series]

Series	TK4N	TK4S	TK4SP	TK4M	TK4W	TK4H	TK4L
Appearances & Dimensions	 <p>CE cRU_{US}</p> <p>[W48×H24×L93mm]</p>	 <p>CE cRU_{US}</p> <p>[W48×H48×L64.5mm]</p>	 <p>CE cRU_{US}</p> <p>[W48×H48×L72.2mm]</p>	 <p>CE cRU_{US}</p> <p>[W72×H72×L64.5mm]</p>	 <p>CE cRU_{US}</p> <p>[W96×H48×L64.5mm]</p>	 <p>CE cRU_{US}</p> <p>[W48×H96×L64.5mm]</p>	 <p>CE cRU_{US}</p> <p>[W96×H96×L64.5mm]</p>
Power supply	100-240VAC 50/60Hz						
Allowable voltage range	90 to 110% of rated voltage						
Power consumption	Max. 6VA		Max. 8VA				
Display method	7Segment (PV: red, SV: green), Other display part (green, yellow, red) LED method						
Character size	PV (W×H)	4.5×7.2mm		7.0×14.0mm		7.0×14.6mm	
	SV (W×H)	3.5×5.8mm		5.0×10.0mm		6.0×12.0mm	
Input type	RTD	JPt100Ω, DPt100Ω, DPt50Ω, Cu100Ω, Cu50Ω, Nikel120Ω (6 types)					
	Thermocouple	K, J, E, T, L, N, U, R, S, B, C, G, PLII (13 types)					
	Analog	Voltage: 0-100mV, 0-5V, 1-5V, 0-10V (4 types) / Current: 0-20mA, 4-20mA (2 types)					
Display accuracy	RTD	• At room temperature (23°C±5°C): (PV ±0.3% or ±1°C, select the higher one) ±1digit • Out of room temperature range: (PV ±0.5% or ±2°C, select the higher one) ±1digit ※TK4S/M-1EA (TK4S-D□□□-2EA, TK4SP-None), TK4N/H/W/L-2EA (for more information, refer to the Specification)					
	Thermocouple						
	Analog	• At room temperature (23°C±5°C): ±0.3% F.S. ±1digit, • Out of room temperature range: ±0.5% F.S. ±1digit					
	CT input	±5% F.S. ±1digit					
Control output	Relay	250VAC 3A 1a					
	SSR	Max. 11VDC ±2V 20mA					
	Current	DC4-20mA or DC0-20mA (resistive load max. 500Ω)					
Sub output	PV transmission	DC4-20mA (resistive load 500Ω max., accuracy: ±0.3% F.S.)					
	Communication	RS485 communication output (Modbus RTU)					
Alarm output	AL1, AL2 Relay: 250VAC 3A 1a (TK4N AL2: 250VAC 0.5A 1a (max. 125VA), TK4SP: AL1 only)						
Sampling period	50ms						
Control method	Heating, cooling: ON/OFF P PI PD PID Heating&cooling: ON/OFF P PI PD PID						
Reference	H-18 to 40						

PID Control Temperature Controller [TCN Series]

Series	TCN4S	TCN4M	TCN4H	TCN4L	
Appearances & Dimensions	 [W48×H48×L65mm]	 [W72×H72×L65mm]	 [W48×H96×L65mm]	 [W96×H96×L65mm]	
	Power supply	AC power: 100-240VAC 50/60Hz AC/DC power: 24-48VDC, 24VAC 50/60Hz			
Allowable voltage range	90 to 110% of rated voltage				
Power consumption	AC power: Max. 5VA (100-240VAC 50/60Hz) AC/DC power: Max. 5VA (24VAC 50/60Hz), Max. 3W (24-48VDC)				
Display method	7Segment (PV: red, SV: green), Other display part (green, red) LED method				
Character size	PV (W×H)	W7.0×H15.0mm	W9.5×H20.0mm	W7.0×H14.6mm	W11.0×H22.0mm
	SV (W×H)	W5.0×H9.5mm	W7.5×H15.0mm	W6.0×H12.0mm	W7.0×H14.0mm
Input type	RTD: DPT100Ω, Cu50Ω (allowable line resistance max. 5Ω per a wire) Thermocouple: K (CA), J (IC), L (IC), T (CC), R (PR), S (PR)				
Display accuracy	RTD	• At room temperature (23°C±5°C): (PV ±0.5% or ±1°C, select the higher one) ±1digit • Out of room temperature range: (PV ±0.5% or ±2°C, select the higher one) ±1digit ※For TCN4S-□P, add ±1°C by accuracy standard. (for more information, refer to the Specification)			
	Thermocouple				
Control output	Relay	250VAC 3A 1a			
	SSR	Max. 12VDC ±2V 20mA			
Alarm output	AL1, AL2 Relay: 250VAC 1A 1a				
Sampling period	100ms				
Control method	ON/OFF P PI PD PID				
Reference	H-41 to 53				






PID Control Temperature Controller [TC Seires]

Series	TC4S	TC4SP	TC4Y	TC4M	TC4W	TC4H	TC4L
Appearances & Dimensions	 [W48×H48×L64.5mm]	 [W48×H48×L72mm]	 [W72×H36×L77mm]	 [W72×H72×L64.5mm]	 [W96×H48×L64.5mm]	 [W48×H96×L64.5mm]	 [W96×H96×L64.5mm]
	Power supply	AC power: 100-240VAC 50/60Hz AC/DC power: 24-48VDC, 24VAC 50/60Hz					
Allowable voltage range	90 to 110% of rated voltage						
Power consumption	AC power: Max. 5VA (100-240VAC 50/60Hz) AC/DC power: Max. 5VA (24VAC 50/60Hz), Max. 3W (24-48VDC)						
Display method	7Segment (red), Other display part (green, yellow, red) LED method						
Character size (W×H)	7.0×15.0mm		7.4×15.0mm	9.5×20.0mm	9.5×20.0mm	7.0×14.6mm	11.0×22.0mm
Input type	RTD: DPT100Ω, Cu50Ω (allowable line resistance max. 5Ω per a wire) Thermocouple: K (CA), J (IC), L (IC)						
Display accuracy	RTD	• At room temperature (23°C±5°C): (PV ±0.5% or ±1°C, select the higher one) ±1digit • Out of room temperature range: (PV ±0.5% or ±2°C, select the higher one) ±1digit ※In case of TC4SP Series, ±1°C will be added. (for more information, refer to the Specification)					
	Thermocouple						
Control output	Relay	250VAC 3A 1a					
	SSR	Max. 12VDC ±2V 20mA					
Alarm output	AL1, AL2 Relay: 250VAC 1A 1a (※TC4SP, TC4Y have AL1 only.)						
Sampling period	100ms						
Control method	ON/OFF P PI PD PID						
Reference	H-54 to 66						







- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software

Product Overview








PID Control Temperature Controller [TZN Series]

Series	TZN4S	TZN4M	TZN4W	TZN4H	TZN4L	
Appearances & Dimensions	 [W48×H48×L90mm]	 [W72×H72×L85mm]	 [W96×H48×L100mm]	 [W48×H96×L100mm]	 [W96×H96×L100mm]	
	CE c RU US	CE c RU US (except AC/DC voltage type)	CE c RU US	CE c RU US	CE c RU US	
Power supply	AC power	100-240VAC 50/60Hz				
	AC/DC power	24VAC 50/60Hz / 24-48VDC (only for TZN4M Series)				
Allowable voltage range	90 to 110% of rated voltage					
Power consumption	AC power	Max. 5VA (100-240VAC 50/60Hz)	Max. 6VA (100-240VAC 50/60Hz)			
	AC/DC power	—	Max. 8VA (24VAC 50/60Hz), Max. 7W (24-48VDC) (only for TZN4M Series)			
Display method	7Segment (PV: red, SV: green) LED method					
Character size	PV (W×H)	7.8×11.0mm	8.0×13.0mm	8.0×10.0mm	7.8×11.0mm	9.8×14.2mm
	SV (W×H)	5.8×8.0mm	5.0×9.0mm	8.0×10.0mm	5.8×8.0mm	8.0×10.0mm
Input type	RTD	DPT100Q, JPT100Q, 3wire (allowable line resistance max. 5Ω per a wire)				
	Thermocouple	K (CA), J (IC), R (PR), E (CR), T (CC), S (PR), N (NN), W (TT) (allowable line resistance max. 100Ω)				
	Analog	1-5VDC, 0-10VDC, DC4-20mA				
Display accuracy	F.S. ±0.3% or 3°C, select the higher one					
Control output	Relay	250VAC 3A 1c				
	SSR	Max. 12VDC ±3V 30mA				
	Current	DC4-20mA (max. load 600Ω)				
Sub output	PV transmission	—	DC4-20mA (max. load 600Ω)			
	EVENT1	250VAC 1A 1a				
	EVENT2	—	250VAC 1A 1a			
Communication	—					
Communication	—					
Sampling period	0.5 sec.					
Control method	ON/OFF P PI PD PIDF PIDS					
Reference	H-72 to 87					

PID Control Temperature Controller [TZ Series]








Series	TZ4SP	TZ4ST	TZ4M	TZ4W	TZ4H	TZ4L
Appearances & Dimensions	 [W48×H48×L95mm]	 [W48×H48×L95mm]	 [W72×H72×L110mm]	 [W96×H48×L110mm]	 [W48×H96×L110mm]	 [W96×H96×L110mm]
	CE c RU US (except AC/DC voltage type)	CE c RU US (except AC/DC voltage type)	CE c RU US	CE c RU US	CE c RU US	CE c RU US (except AC/DC voltage type)
Power supply	AC power	100-240VAC 50/60Hz				
	AC/DC power	24VAC 50/60Hz / 24-48VDC (only for TZ4SP, TZ4ST, TZ4L)				
Allowable voltage range	90 to 110% of rated voltage					
Power consumption	AC power	Max. 5VA (100-240VAC 50/60Hz)	Max. 6VA (100-240VAC 50/60Hz)			
	AC/DC power	Max. 7VA (24VAC 50/60Hz), Max. 6W (24-48VDC)	—			Max. 8VA (24VAC 50/60Hz), Max. 7W (24-48VDC)
Display method	7Segment (PV: red, SV: green) LED method					
Character size	PV (W×H)	4.8×7.8mm	9.8×14.2mm	8.0×10.0mm	3.8×7.6mm	9.8×14.2mm
	SV (W×H)	4.8×7.8mm	8.0×10.0mm	8.0×10.0mm	3.8×7.6mm	8.0×10.0mm
Input type	RTD	DPT100Q, JPT100Q, 3wire (allowable line resistance max. 5Ω per a wire)				
	Thermocouple	K (CA), J (IC), R (PR), E (CR), T (CC), S (PR), N (NN), W (TT) (allowable line resistance max. 100Ω)				
	Analog	1-5VDC, 0-10VDC, DC4-20mA				
Display accuracy	F.S. ±0.3% or 3°C, select the higher one					
Control output	Relay	250VAC 3A 1c				
	SSR	Max. 12VDC ±3V 30mA				
	Current	DC4-20mA (max. load 600Ω)				
Sub output	PV transmission	—	DC4-20mA (max. load 600Ω)			
	EVENT1	250VAC 1A 1a				
	EVENT2	—	250VAC 1A 1a			
Communication	—					
Communication	—					
Communication	—					
Communication	—					
Communication	—					
Communication	—					
Control type	ON/OFF P PI PD PIDF PIDS					
Sampling period	0.5 sec.					
Reference	H-72 to 87					

Analog Temperature Controller (Displays Deviation Value) [TA Series]

Series	TAS	TAM	TAL
Appearances & Dimensions	 [W48×H48×L66.5mm]	 [W72×H72×L64.5mm]	 [W96×H96×L64.5mm]
			
Power supply	100-240VAC 50/60Hz		
Allowable voltage range	90 to 110% of rated voltage		
Power consumption	Max. 4VA		
Display method	Deviation LED (red, green), Output LED (red) method		
Setting type	Dial setting		
Setting accuracy ^{※1}	F.S. ±2% (room temperature 23°C±5°C)		
Input type	RTD	DPt100Ω (allowable line resistance max. 5Ω per a wire)	
	Thermocouple	K (CA), J (IC)	
Control output	Relay	250VAC 3A 1c	
	SSR	Max. 12VDC ±2V 20mA	
Control method			
Reference	H-67 to 71		

※1: Out of room temperature range: Below 100°C model is F.S. ±4%, over 100°C model is F.S. ±3%

Temperature Indicator [T3/T4 Series]





Series	T3NI	T4YI	T4WI	T3SI	T3HI	T4MI	T4LI	
Appearances & Dimensions	 [W48×H24×L52mm]	 [W72×H36×L100mm]	 [W96×H36×L42mm]	 [W48×H48×L90.1mm]	 [W48×H96×L83mm]	 [W72×H72×L89.3mm]	 [W96×H96×L82.5mm]	
	Power supply	12-24VDC	100-240VAC 50/60Hz					
Allowable voltage range	90 to 110% of rated voltage							
Power consumption	Max. 1W	Max. 3VA						
Display method	7 segment (red) LED method							
Character size (W×H)	4.0×8.0mm	8.0×14.2mm		3.8×7.6mm	6.0×10.0mm		8.0×14.2mm	
Input type	RTD	DPt100Ω (Allowable line resistance max.5Ω per a wire)						
	TC	K (CA), J (IC)				K (CA), J (IC), R (PR)		
Display accuracy ^{※1}	RTD	●At room temperature (23°C ± 5°C): (PV ± 0.5% or ±1°C, select the higher one) ± 1 digit						
	TC	●Out of room temperature range: (PV ± 0.5% or ±2°C, select the higher one) ± 1 digit						
Reference	H-97 to 102							

※1: In case of the T3NI, T3SI Series and the decimal point display models
 At room temperature (23°C±5°C): (PV ±0.5% or ±2°C, select the higher one)±1 digit
 Out of room temperature range: (PV ±0.5% or ±3°C, select the higher one)±1 digit

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software

Product Overview

Temperature Controller [T3/T4 Series]

Series	T3S	T3H	T3HA	T3HS	T4M	T4MA	T4L	T4LA	T4LP	
Appearances & Dimensions										
	[W48×H48×L90.1mm]	[W48×H96×L83mm]			[W72×H72×L89.3mm]			[W96×H96×L82.5mm]		
Power supply	100-240VAC 50/60Hz									
Allowable voltage range	90 to 110% of rated voltage									
Power consumption	Max. 5VA									
Display method	7 segment (red) LED method									
Character size (W×H)	3.8×7.6mm			6.0×10.0mm				8.0×14.2mm		
Input type	RTD	DPT100Ω (Allowable line resistance max.5Ω per a wire)								
	TC	K (CA), J (IC)			K (CA), J (IC), R (PR)					
Display accuracy*1	RTD	●At room temperature (23°C ± 5°C): (PV ± 0.5% or ±1°C, select the higher one) ± 1 digit								
	TC	●Out of room temperature range: (PV ± 0.5% or ±2°C, select the higher one) ± 1 digit								
Control output	Relay	OUT1: 250VAC 5A 1c, OUT2: 250VAC 2A 1c*2								
	SSR	Max. 12VDC ± 2V 20mA								
	Current	DC4-20mA (resistive load max. 500Ω)								
Alarm/Sub/Dual setting output	—		250VAC 2A 1c		—		250VAC 2A 1a		—	250VAC 2A 1c
Control method	ON/OFF P									
Hysteresis	F.S. 0.5%		F.S. 0.2 to 3% variable							
Proportional band	F.S. 3%		F.S. 1 to 10% variable							
Proportional cycle	20 sec.									
RESET range	F.S. -3 to 3% variable									
Reference	H-88 to 96									




*1: In case of the T3S Series and the decimal point display models

At room temperature (23°C ± 5°C): (PV ± 0.5% or ±2°C, select the higher one) ± 1 digit


Out of room temperature range: (PV ± 0.5% or ±3°C, select the higher one) ± 1 digit

*2: Dual output of the T4LP is fixed as relay output and, it is also available as alarm output.

Analog Temperature Controller (Non-Display Type) [TOS/TOM/TOL Series]

Series	TOS	TOM	TOL
Appearances & Dimensions			
	[W48×H48×L79mm]	[W72×H72×L112mm]	[W96×H96×L100mm]
Power supply	100-240VAC 50/60Hz		110/220VAC 50/60Hz
Allowable voltage range	90 to 110% of rated voltage		
Power consumption	Max. 2.2VA		Max. 3VA
Setting type	Dial setting		
Setting accuracy	F.S. ±2%		
Display method	LED ON		LED ON/OFF
Input type	RTD	DPT100Ω	
	Thermocouple	K (CA), J (IC)	
Control output	Relay	250VAC 2A 1c	250VAC 3A 1c
	SSR	Max. 12VDC ± 3V 20mA	
Control type	ON/OFF P		
Reference	H-103 to 106		

Freezing/Defrost Temperature Controller [TC3YF Series]

Model	TC3YF-11R ※1	TC3YF-14R ※1	TC3YF-21R	TC3YF-24R	TC3YF-31R	TC3YF-34R
Appearances & Dimensions	 [W72×H36×L77mm]					
Power supply	12-24VDC	100-240VAC 50/60Hz	12-24VDC	100-240VAC 50/60Hz	12-24VDC	100-240VAC 50/60Hz
Allowable voltage range	90 to 110% of rated voltage					
Power consumption	Max. 8W	Max. 4VA	Max. 8W	Max. 4VA	Max. 8W	Max. 4VA
Display method	7Segment (red) LED method					
Character size (W×H)	7.4×15.0mm					
Input type	NTC: Thermistor, RTD: DPT100Ω (customizable)					
Display method	NTC: -40.0 to 99.9°C (-40 to 212°F), RTD: -99.9 to 99.9°C (-148 to 212°F)					
Display accuracy	(PV ±0.5% or ±1°C, select the higher one) ±1digit					
Control output	Compressor output (250VAC 5A 1a)		Compressor output (250VAC 5A 1a) Defrost output (250VAC 10A 1a)		Compressor output (250VAC 5A 1a) Defrost output (250VAC 10A 1a) Evaporation-fan output (250VAC 5A 1a)	
Sampling period	0.5sec.					
Control method	ON/OFF					
Reference	H-107 to 112					

※1: It is natural defrost type without defrost function.

Simple Operation Temperature Controller [TC3YT Series]

Model	TC3YT-B4R	TC3YT-B4R16
Appearances & Dimensions	 [W72×H36×L77mm]	
Power supply	100-240VAC 50/60Hz	
Display method	7 Segment(red) LED method[Deviation "■" signal(Green), unit display(Yellow)]	
Hysteresis	1 to 100°C	
Proportional band	0 to 100%	
Offset correction	0 to 100%	
Control period	1 to 120sec.	
Sampling period	500ms	
Input sensor※1	NTC: Thermistor, RTD: DPT 100Ω, TC:K(CA), J(IC), RTD : DPT100Ω	
Control method	ON/OFF P	
Control output	Relay output 250VAC 3A 1c	Relay output 250VAC 16A 1c
Relay life cycle	Mechanical: Min. 10,000,000 times, Electrical: Min. 100,000 times (250VAC 3A resistive load)	Mechanical: Min. 10,000,000 times, Electrical: Min. 100,000 times (250VAC 16A resistive load)
Reference	H-113 to 118	

※1. RTD(DPT100Ω) type is customizable.

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

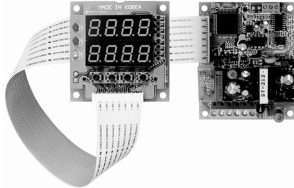
(R) Graphic/Logic Panels

(S) Field Network Devices






(T) Software

Product Overview

Board Type PID Control Temperature Controller [TB42 Series]

Model	TB42-14R	TB42-14S	TB42-14C	TB42-14N
Appearances & Dimensions	 <p>[Display part: W60×H60mm] [Controller part: W65×H78mm]</p>			
Power supply	100-240VAC 50/60Hz			
Allowable voltage range	90 to 110% of rated voltage			
Power consumption	Max. 5VA			
Display method	7Segment (PV: green, SV: red) LED method			
Character size (W×H)	8.0×10.0mm			
Input type	RTD	DPT100Ω (allowable line resistance max. 5Ω per a wire)		
	Thermocouple	K (CA), J (IC) (tolerance of outer resistance is max. 100Ω)		
Display accuracy	F.S. ±0.5% or 3°C, select the higher one			
Output	Relay	250VAC 3A 1a	—	—
	SSR drive	—	Max. 12VDC ±3V 30mA	—
	Current	—	—	DC4-20mA (max. load 600Ω)
	Transmission	—	—	—
Sub output	Event1	Relay output (250VAC 0.5A 1a)		
	Event2	OK monitoring display by LED		
Sampling period	0.5 sec.			
Control method	<input type="checkbox"/> ON/OFF <input type="checkbox"/> P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PIDF <input type="checkbox"/> PIDS			
Reference	H-119 to 127			

Temperature/Humidity Transducer [THD Series]


Series	THD-R-T	THD-R-PT/C	THD-R-C THD-R-V THD-R-T	THD-D□□ THD-W□□	THD-DD□□ THD-WD□□
Appearances & Dimensions	 <p>(room type)</p> <p>[W60×H80×L33.5mm]</p>	 <p>(wall mounting type)</p> <p>[W72×H80×L34mm]</p>	 <p>(duct mounting type)</p>	 <p>(wall mounting type)</p> <p>[W72×H80×L34mm]</p>	 <p>(duct mounting type)</p>
Power supply	—	24VDC			
Allowable voltage range	—	90 to 110% of rated voltage			
Power consumption	—	Max. 2.4W			
Display method	—	Non-display type			7 Segment LED display
Character size (W×H)	—	—			6.2×10.0mm
Input type	Temperature (built-in sensor)		Temperature, humidity (built-in sensor)		
Accuracy ^{※1}	Temp.	Max. ±0.8°C	±1.0°C (at room temperature)		—
	Humidity	—	±3%RH (30 to 70%RH, at room temp.), ±4%RH (10 to 90%RH)	±2%RH (10 to 90%RH, at room temp.)	
Output ^{※2}	Temp.	DPT100Ω resistance value		DC4-20mA, 1-5VDC, RS485 (Modbus RTU)	
	Humidity	—	DC4-20mA	—	
Sampling period	—	0.5sec.			
Reference	H-128 to 134				

※1: •Room temperature is 23°C±5°C.

- It may cause degree of degradation when this unit is exposed to organic chemicals such as alcohol gas or sulfuric acid.
- It may cause degree of degradation for humidity when using this unit at high temperature/humidity environment for a long time.
- It may cause error of humidity value when this unit is exposed to high humidity environment (over 80%RH) for a long time.

※2: The allowable impedance of current output is max. 600Ω.

5 Point Temperature Indicator [T4WM Series]

Series	T4WM
Appearances & Dimensions	 <p>[W96×H48×L99.6mm]</p>
Power supply	110/220VAC 50/60Hz
Allowable voltage range	90 to 110% of rated voltage
Power consumption	Max. 3VA
Display method	7Segment (red) LED method
Character size (W×H)	9.8×14.2mm
Display accuracy	F.S. ±0.5% rdg ±1digit
Input sensor	Thermocouple: K (CA), J (IC) / RTD: DPt100Ω
Input line resistance	Thermocouple: Max. 100Ω / RTD: Allowable line resistance max. 5Ω per a wire
Connectable sensors	5EA (thermocouple, RTD are not used as mixed)
Switching CH	Selectable manual/auto
Auto switching time	1 to 10sec. variable (Includes adjuster)
Reference	H-135 to 137

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software