

















Product Overview

Multi-channel module type PID control temperature controller

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	NEW   [W30×H100×L84.8mm]											
Channel	2 Channel (Each channel insulated-Dielectric strength 1,000 VAC)						4 Channel (Each channel insulated-Dielectric strength 1,000 VAC)					
Power Supply	24VDC											
Allowable voltage range	90 to 110% of rated voltage											
Power consumption	Max. 5W (At maximum load)											
Indicating type	Non-indicating type Parameter setting & monitoring with external devices (PC or PLC)											
Input type	RTD DPT100Ω, JPT100Ω 3 wire (Allowable line resistance : Max. 5Ω)											
	Thermocouples K, J, E, T, L, N, U, R, S, B, C, G, PLII(13types)											
Indicating accuracy	RTD Thermocouples (★1) (Bigger one either PV ±0.5% or ±1℃) ±1 Digit Max.											
	CT input (±5% F/S) ±1 Digit Max.						_____					
	Current output (±1.5% F/S) ±1 Digit Max.						_____					
Influence of Temperature	RTD (Bigger one either PV ±0.5% or ±2℃) ±1 Digit Max. (In case of thermocouple input, it is ±5℃ at -100℃ below.)											
	Thermocouples • Thermocouples L, U, C, G, R, S, B : (Bigger one either PV ±0.5% or ±5℃) ±1 Digit Max.											
Control output	Relay 250VAC 3A 1a						_____					
	SSR _____						12VDC ±3V 30mA Max.					
	Current _____						DC 4-20mA or DC 0-20mA selectable (Load 500Ω Max.)					
Sub output	Relay 250VAC 3A 1a						_____					
Communication output	RS485 Communication output (Modbus RTU)											
Control method	Heating, cooling											
	Heating&cooling											
Reference	 H-9 to 16											








※(★1) In case of thermocouple K, T, N, J, E at -100℃ below and L, U, Platinel II, it is ±2℃ ±1Digit Max.
 In case of thermocouple B, indicating accuracy cannot be ensured under 400℃.
 In case of thermocouple R, S at 200℃ below and thermocouple C, G, it is 3℃ ±1Digit Max.

High accuracy PID control temperature controller

Series	TK4S	TK4SP	TK4W	TK4H	TK4M	TK4L
Appearances & Dimensions	NEW  (To be certified soon)  [W48×H48×L72.2mm]	NEW  (To be certified soon)  [W48×H48×L64.5mm]	NEW  (To be certified soon)  [W96×H48×L64.5mm]	NEW  (To be certified soon)  [W48×H96×L64.5mm]	NEW  (To be certified soon)  [W72×H72×L64.5mm]	NEW  (To be certified soon)  [W96×H96×L64.5mm]
Power supply	100-240VAC 50/60Hz					
Display method	7 Segment (Red), Other display part (Green, Yellow, Red) LED					
Input type	RTD JPT 100Ω, DPT 100Ω, DPT 50Ω, CU 100Ω, CU 50Ω, Nikel 120Ω (6types)					
	Thermocouple K, J, E, T, L, N, U, R, S, B, C, G, PLII(13types)					
Control output	Relay 250VAC 3A 1a					
	SSR 11VDC ±2V 20mA Max.					
	Current DC4-20mA or DC0-20mA (Resistive load Max. 500Ω)					
Sub output	Relay AL1, AL2 relay : 250VAC 3A 1a(TK4SP : AL1 only)					
	Transmission DC4-20mA (Load 500Ω Max., Accuracy : ±0.3% F · S)					
Display accuracy	Communication RS485 communication output (Modbus RTU)					
	RTD At room temperature (23℃ ±5℃) : (PV ±0.3% or ±1℃, select the bigger one) ±1Digit Out of range of room temperature : (PV ±0.5% or ±2℃, select the bigger one) ±1Digit In case of TK4SP series, ±1℃ will be added.					
	Thermocouple At room temperature (23℃ ±5℃) : ±0.3% F · S ±1Digit, Out of range of room temperature : ±0.5% F · S ±1Digit					
	Analog ±5% F · S ±1Digit					
Sampling period	50ms					
Hysteresis	• Thermocouples / RTD : 1 to 100℃/F (0.1 to 100.0℃/F) variable • Analog : 1 to 100 Digit					
Control method	Heating, cooling					
	Heating&cooling					
Reference	 H-17 to 38					

Product Overview

Economical PID control temperature controller






Model	TC4S	TC4SP	TC4Y	TC4M	TC4H	TC4W	TC4L
Appearances & Dimensions							
	[W48×H48×L64.5mm]	[W48×H48×L72mm]	[W72×H36×L77mm]	[W72×H72×L64.5mm]	[W48×H96×L64.5mm]	[W96×H48×L64.5mm]	[W96×H96×L64.5mm]
Power supply	AC power	100–240VAC 50/60Hz					
	Low voltage	24–48VDC, 24VAC 50/60Hz					
Allowable voltage range	90 to 110% of rated voltage						
Power consumption	AC power	Max. 5VA(100–240VAC 50/60Hz)					
	Low voltage	Max. 5VA(24VAC 50/60Hz), Max. 3W(24–48VDC)					
Display method	7Segment(Red), Other display (Green, Yellow, Red) LED						
Character size	W7×H15mm		W7.4×H15mm	W9.5×H20mm	W7×H14.6mm	W9.5×H20mm	W11×H22mm
Input type	RTD	DIN Pt100Ω (Allowable line resistance max. 5Ω per a wire)					
	Thermo-couple	K(CA), J(IC)					
Display method	RTD, Thermo-couple	(★1) (PV ±0.5% or ±1℃ higher one) rdg ±1Digit (★2) *TC4SP (Plug type) is (PV ±0.5% or ±2℃ higher one) rdg ±1Digit *Based on room temperature(23℃ ±5℃)					
Control output	Relay	250VAC 3A 1a					
	SSRP	(★3) 12VDC ±2V 20mA Max.					
Sub output	AL1, AL2 relay output : 250VAC 1A 1a(*TC4SP, TC4Y have AL1 only.)						
Control method	ON/OFF P PI PD PID						
Reference	H-39 to 48, 57 to 60						

* (★1) (PV ±0.5% or ±2℃ higher one) rdg ±1Digit, except room temperature range.

* (★2) TC4SP is (PV ±0.5% or ±3℃ higher one) rdg ±1Digit, except room temperature range.

* (★3) For low voltage type, SSR drive output is fixed as standard output.






Digital switch PID temperature controller

Model	TD4SP	TD4M	TD4H	TD4L	TD4LP
Appearances & Dimensions					
	[W48×H48×L64.6mm]	[W72×H72×L64.5mm]	[W48×H96×L64.5mm]	[W96×H96×L64.5mm]	[W96×H96×L64.5mm]
Power supply	100–240VAC 50/60Hz				
Allowable voltage range	90 to 110% of rated voltage				
Power consumption	Max. 5VA			Max. 3VA	
Display method	7 Segment(Red), Other display part(Green, Yellow, Red LED)				
Character size	H15mm×W7mm	H18mm×W9mm	H15mm×W7mm	H22mm×W11mm	
Input type	RTD	DIN Pt100Ω (Allowable line resistance max. 5Ω per a wire)			
	Thermo-couple	K(CA), J(IC)			
Display method	RTD	(PV ±0.5% or ±1℃ higher one) rdg ±1Digit			
	Thermo-couple	*TD4SP (Plug type) is (PV ±0.5% or ±2℃ higher one) rdg ±1Digit			
Control output	Relay	250VAC 3A 1c	250VAC 3A 1a	RELAY(250VAC 3A 1a)	
	SSR drive	24VDC±3V 20mA Max.		+ SSR(24VDC±3V 20mA)	
	Current	DC4–20mA (Load resistance Max. 600Ω)			
Sub output	—	AL1 relay output : 250VAC 1A 1a	AL1, AL2 relay output : 250VAC 1A 1a		AL1 relay output : 250VAC 1A 1a
Control method	ON/OFF P PI PD PID				
Reference	H-49 to 60				H-61 to 67







- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller
- (I) SSR/Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/Speed/Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement

Product Overview

PID control temperature controller





Model	TZN4S	TZN4M	TZN4H	TZN4W	TZN4L
Appearances & Dimensions	 [W48×H48×L90mm]	 [W72×H72×L85mm]	 [W48×H96×L100mm]	 [W96×H48×L100mm]	 [W96×H96×L100mm]
Functions	<ul style="list-style-type: none"> ●Multi-input function:13 kinds of multi-input mode ●Dual PID auto tuning function ●High display accuracy : ±0.3% (by F · S value of each input) ●Dual PID function:Selection function of PIDF (for high speed control), PIDS (for low speed control) 				
Power supply	100–240VAC 50/60Hz, 24VAC 50/60Hz / 24–48VDC (Only for TZN4M series)				
Allowable voltage range	90 to 110% of rated voltage				
Power consumption	Approx. 5VA	Approx. 6VA (Low voltage type AC : 8VA, DC : 7W)			
Display type	7Segment LED display [Process value (PV) : Red, Setting value (SV) : Green]				
Indicating accuracy	F · S ±0.3% or 3°C (Higher one)				
Setting method	Setting by front push buttons				
Input	Thermocouple	K (CA), J (IC), R (PR), E (CR), T (CC), S (PR), N (NN), W (TT) <Tolerance of line resistance is max. 100Ω per a wire>			
	RTD	Pt100Ω, JIS Pt100Ω, 3wire <Tolerance of line resistance is max. 5Ω per a wire>			
	Analog	1–5VDC, 0–10VDC, DC4–20mA			
Control output	Relay	250VAC 3A 1c			
	SSR drive	12VDC ±3V 30mA Max.			
	Current	DC4–20mA Load 600Ω Max.			
Sub output	Transmission	PV transmission : DC4–20mA Load max. 600Ω			
	SUB	Event1 250VAC 1A 1a	Event1, Event2 250VAC 1A 1a		
	Communication	RS485 (PV transmission, SV setting)			
Control method	ON/OFF P PI PD PIDF PIDS				
Reference	H-68 to 83				

PID control temperature controller


Model	TZ4SP	TZ4ST	TZ4H	TZ4M	TZ4W	TZ4L
Appearances & Dimensions	 [W48×H48×L95mm]	 [W48×H48×L95mm]	 [W48×H96×L110mm]	 [W72×H72×L110mm]	 [W96×H48×L110mm]	 [W96×H96×L110mm]
Functions	<ul style="list-style-type: none"> ●Multi-input function:13 kinds of multi-input mode ●Dual PID auto tuning function ●High display accuracy : ±0.3% (by F · S value of each input) ●Dual PID function:Selection function of PIDF (for high speed control), PIDS (for low speed control) 					
Power supply	100–240VAC 50/60Hz, 24VAC 50/60Hz / 24–48VDC (Only for TZ4SP, TZ4ST, TZ4L)					
Allowable voltage range	90 to 110% of rated voltage					
Power consumption	5VA	Approx. 6VA (Low voltage type AC : 8VA, DC : 7W)				
Display type	7Segment LED display [Process value (PV) : Red, Setting value (SV) : Green]					
Indicating accuracy	F · S ±0.3% or 3°C (Higher one)					
Setting method	Setting by front push buttons					
Input	Thermocouple	K (CA), J (IC), R (PR), E (CR), T (CC), S (PR), N (NN), W (TT) <Tolerance of line resistance is max. 100Ω per a wire>				
	RTD	Pt100Ω, JIS Pt100Ω, 3wire <Tolerance of line resistance is max. 5Ω per a wire>				
	Analog	1–5VDC, 0–10VDC, DC4–20mA				
Control output	Relay	250VAC 3A 1c				
	SSR	12VDC ±3V 30mA Max.				
	Current	DC4–20mA Load 600Ω Max.				
Sub output	Transmission	PV transmission : DC4–20mA Load max. 600Ω				
	SUB	EVENT1 250VAC 1A 1a	EVENT1, EVENT2 250VAC 1A 1a			
	Communication	RS485 (PV transmission, SV setting)				
Control type	ON/OFF P PI PD PIDF PIDS					
Reference	H-68 to 83					

Product Overview

Digital switch temperature controller(Standard type)

Series	T3S	T3H	T4M	T4L
Appearances & Dimensions	 [W48×H48×L88mm]	 [W48×H96×L134mm]	 [W72×H72×L112mm]	 [W96×H96×L100mm]
Function	●Standard type ●DIN standardized External size ●Measuring and controlling high accuracy ±0.5%			
Power supply	100-240VAC 50/60Hz		110/220VAC 50/60Hz	
Allowable voltage range	90 to 110% of rated voltage			
Power consumption	5VA		3VA	
Display type	7Segment LED Display			
Display accuracy	F · S ± 1% rdg ± 1digit		F · S ± 0.5% rdg ± 1digit	
Setting type	Digital switch setting			
Setting accuracy	F · S ± 1%		F · S ± 0.5%	
Input	Thermocouple	K (CA), J (IC)		K (CA), J (IC), R (PR)
	RTD	Pt100Ω		
Control output	Relay	250VAC 2A 1c	250VAC 3A 1c	
	SSR drive	12VDC ± 3V 20mA Max.	24VDC ± 3V 20mA Max.	
	Current output	DC4-20mA Load 600Ω Max.		
Control method	ON/OFF P			
Reference	H-84 to 88			








Digital switch temperature controller(Includes alarm function)

Series	T3HS	T3HA	T4MA	T4LA	T4LP
Appearances & Dimensions	※SUB output type  [W48×H96×L134mm]	 [W48×H96×L134mm]	 [W72×H72×L112mm]	 [W96×H96×L110mm]	※Dual setting type  [W96×H96×L110mm]
Function	●Catapult, Auto soldering machine, Includes SUB output of solder port control(T3HS Type) ●High accuracy: 0.5% ●Controlling heater and cooler at once (Dual setting type)				
Power supply	110/220VAC 50/60Hz				
Allowable voltage range	90 to 110% of rated voltage				
Power consumption	3VA				
Display type	7Segment LED Display				
Display accuracy	F · S ± 0.5% rdg ± 1digit				
Setting type	Digital switch setting				
Setting accuracy	F · S ± 0.5%				
Input	Thermocouple	K (CA), J (IC), R (PR)			
	RTD	Pt100Ω			
Control output	Relay	250VAC 3A 1c			
	SSR drive	24VDC ± 3V 20mA Max.			
	Current output	DC4-20mA Load 600Ω Max.			
Sub output	Alarm	—————	250VAC 1A 1a	250VAC 1A 1c	250VAC 2A 1c
	SUB	250VAC 1A 1a	—————		
Control method	ON/OFF P				
Reference	H-89 to 93				H-94 to 97

- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller**
- (I) SSR/Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/Speed/Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement

Product Overview

Digital temperature Indicator



Series	T3NI	T4YI	T4WI	T3SI	T4MI	T3HI	T4LI
Appearances & Dimensions	 [W48×H24×L48mm]	 [W72×H36×L93mm]	 [W96×H48×L99.6mm]	 [W48×H48×L88mm]	 [W72×H72×L112mm]	 [W48×H96×L134mm]	 [W96×H96×L100mm]
Function	<ul style="list-style-type: none"> ●Indicator (No output) ●High accuracy measurement: 0.3% or 0.5% ●Small size 			<ul style="list-style-type: none"> ●Indicator (No output) ●High accuracy measurement : 0.5% 			
Power supply	12-24VDC	100-240VAC 50/60Hz	110/220VAC 50/60Hz	100-240VAC 50/60Hz	110/220VAC 50/60Hz		
Allowable voltage range	90 to 110% of rated voltage						
Power consumption	2W	3VA					
Display type	7Segment LED display						
Display accuracy	F · S ± 0.3% rdg ± 1digit	F · S ± 0.5% rdg ± 1digit					
Input	Thermocouple	K(CA), J(IC)		K(CA), J(IC)	K(CA), J(IC), R(PR)	K(CA), J(IC)	K(CA), J(IC), R(PR)
	RTD	Pt100Ω					
Reference	H-98 to 102						

Analog temperature controller(Non-indicating type)

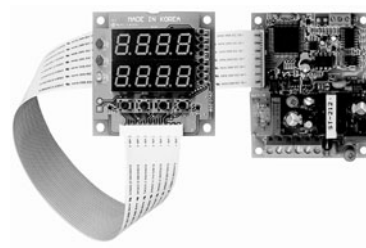

Series	TOS	TOM	TOL
Appearances & Dimensions	 [W48×H48×L79mm]	 [W72×H72×L112mm]	 [W96×H96×L100mm]
Function	<ul style="list-style-type: none"> ●Non-indicating type ●8pin plug type 	<ul style="list-style-type: none"> ●Non-indicating type (TOM, TOL) ●Setting temperature by dial 	
Power supply	110/220VAC 50/60Hz		
Allowable voltage range	90 to 110% of rated voltage		
Power consumption	2.2VA	3VA	
Display type	LED ON display	LED ON/OFF display	
Display accuracy	—————		
Setting type	Dial setting		
Setting accuracy	F · S ± 2%		
Input	Thermocouple	K(CA), J(IC)	
	RTD	Pt100Ω	
Control output	Relay	250VAC 2A 1c	250VAC 3A 1c
	SSR	12VDC ± 3V 20mA Max.	
Control type	ON/OFF P		
Reference	H-103 to 106		

Product Overview

Freezing/defrost temperature controller

Series	TC3YF-14R	TC3YF-24R	TC3YF-34R
Appearances & Dimensions	 [W72×H36×L77mm]		
Functions	<ul style="list-style-type: none"> ●Manual/automatic defrost ●Input correction 	<ul style="list-style-type: none"> ●Start delay of compressor ●Error display 	<ul style="list-style-type: none"> ●Delay of defrost end ●Loop break alarm
Power supply	100-240VAC 50/60Hz		
Display type	7 Segment LED display (Red)		
Input sensor	NTC : Thermistor, RTD : DIN Pt100Ω (Customizable)		
Indication method	NTC : -40.0 to 99.9℃, RTD : -99.9 to 99.9℃ (Customizable)		
Display accuracy	[PV ±0.5% or ±1℃ Max.] rdg ±1digit		
Sampling period	Min. 0.5sec.		
Output	Compressor	250VAC 5A 1a	
	Defrost	_____	250VAC 10A 1a
	Evaporation-fan	_____	250VAC 5A 1a
Memory protection	Approx. 10 years (When using non-volatile semiconductor memory)		
Control method			
Reference	H-107 to 112		


PID control temperature controller(Board type)

Series	TB42
Appearances & Dimensions	 [Display part : W60×H60mm] [Controller part : W65×H78mm]
Function	<ul style="list-style-type: none"> ●High quality and economical type (Enable to add functions) ●Convenient and suitable for various place and purpose ●Enable to change the dimension of display board
Power supply	100-240VAC 50/60Hz
Allowable voltage range	90 to 110% of rated voltage
Power consumption	Approx. 5VA
Display type	7 Segment LED display [Processing value (PV) : Green, Setting value (SV) : Red]
Display accuracy	F · S ±0.5% or 3℃ (High one)
Setting type	Setting by front push buttons
Input	Thermocouple RTD
	K (CA), J (IC) Pt100Ω
Output	Relay
	250VAC 3A 1a
	SSR drive
	12VDC ±3V 30mA Max.
	Current
	DC4-20mA Load 600Ω Max.
	Transmission
	DC4-20mA, load Max. 600Ω for PV
Sub output	Event1
	Relay output (250VAC 0.5A 1a)
	Event2
	OK monitoring display by LED
Control method	
Reference	H-113 to 114



(A)	Photo electric sensor
(B)	Fiber optic sensor
(C)	Door/Area sensor
(D)	Proximity sensor
(E)	Pressure sensor
(F)	Rotary encoder
(G)	Connector/Socket
(H)	Temp. controller
(I)	SSR/Power controller
(J)	Counter
(K)	Timer
(L)	Panel meter
(M)	Tacho/Speed/Pulse meter
(N)	Display unit
(O)	Sensor controller
(P)	Switching power supply
(Q)	Stepping motor & Driver & Controller
(R)	Graphic/Logic panel
(S)	Field network device
(T)	Production stoppage models & replacement

Product Overview

Temperature/Humidity transducer(Room type)


Model	THD-R-C	THD-R-V	THD-R-T	THD-R-PT/C	THD-R-RT
Appearances & Dimensions	 [W60×H80×L33.5mm]				
Display type	Non-indicating type				—————
Power supply	24VDC ±10%				—————
Power consumption	Max. 2.4W				—————
Measuring input	Temperature, Humidity (Built-in sensor)				Temperature (Built-in sensor)
Output accuracy	Temp.	• DC4-20mA • 1-5VDC • RS485 (Modbus RTU)		Temperature sensor (Pt100Ω) resistance value	
	Humidity			DC4-20mA	—————
Measurement range	Temp.	-19.9 to 60.0℃		0 to 50℃	
	Humidity	0.0 to 99.9%RH (Be cautious of using in over 90%RH of humidity)			
Accuracy	Temp.	5.0 to 40.0℃ Max. ±0.5℃ (Max. ±1.0℃ for -19.9 to 5.0℃)		Max. ±0.8℃	
	Humidity	Max. ±3%RH at 30 to 70%RH (at 25 to 45℃)			
Sampling period	0.5sec. fixed				—————
Reference	H-115 to 120				

Temperature/Humidity transducer(Duct mounting/Wall mounting type)

Model	Duct mounting type	THD-D□-C	THD-D□-V	THD-D□-T	THD-DD□-C	THD-DD□-V	THD-DD□-T
	Wall mounting type	THD-W□-C	THD-W□-V	THD-W□-T	THD-WD□-C	THD-WD□-V	THD-WD□-T
Appearances & Dimensions	 [Duct Mounting type] [Wall Mounting type]				 [Duct Mounting type] [Wall Mounting type]		
	[W72×H85×H34mm]				[W72×H85×H34mm]		
Display type	Non-indicating type				7 Segment LED display (3digit for temperature, humidity)		
Power supply	24VDC ±10%						
Power consumption	Max. 2.4W						
Input	Built-in temperature, humidity sensor						
Length of sensor pole	1:100mm, 2:200mm						
Output accuracy	Temp.	DC4-20mA	1-5VDC	RS485 (Modbus RTU)	DC4-20mA	1-5VDC	RS485 (Modbus RTU)
	Humidity						
Measurement range	Temp.	-19.9 to 60.0℃					
	Humidity	0.0 to 99.9%RH					
Accuracy	Temp.	5.0 to 40.0℃ Max. ±0.5℃ (Max. ±1.0℃ for other term)					
	Humidity	Max. ±3%RH at 30 to 70%RH (at 25 to 45℃)					
Sampling period	0.5sec. fixed						
Reference	H-115 to 120						

Product Overview

5 Point temperature indicator

Series	T4WM	
Appearances & Dimensions	 <p>[W96×H78×L99.6mm]</p>	
Function	<ul style="list-style-type: none"> ● 5 Point temperature measurement ● High accuracy measurement : F • S ±0.5% ● Automatic or manual display of temperature in each point ● Indication type only 	
Power supply	100–240VAC 50/60Hz	
Allowable voltage range	90 to 110% of rated voltage	
Power consumption	Approx. 3VA	
Display type	7 Segment LED display	
Display accuracy	F • S ±0.5%	
Setting type	—————	
Input sensor	Thermocouples : K(CA), J(IC), RTD : Pt100Ω	
Input line resistance	Thermocouples : Max. 100Ω, RTD : Max. 5Ω per a wire	
Available sensor quantity	Thermocouple : Max. 5pcs, RTD : Max. 5pcs	
Auto switching method	SELECT button type	
Auto switching time	1 to 10sec. variable (Includes adjuster)	
Reference	H-121 to 123	

- (A) Photo electric sensor
- (B) Fiber optic sensor
- (C) Door/Area sensor
- (D) Proximity sensor
- (E) Pressure sensor
- (F) Rotary encoder
- (G) Connector/Socket
- (H) Temp. controller**
- (I) SSR/Power controller
- (J) Counter
- (K) Timer
- (L) Panel meter
- (M) Tacho/Speed/Pulse meter
- (N) Display unit
- (O) Sensor controller
- (P) Switching power supply
- (Q) Stepping motor & Driver & Controller
- (R) Graphic/Logic panel
- (S) Field network device
- (T) Production stoppage models & replacement