


Temperature Indicator

■ Features

- Various size as DIN specifications
(W48×H24, W72×H36, W96×H48, W48×H48,
W48×H96, W72×H72, W96×H96mm)

 Please read "Caution for your safety" in operation manual before using.



■ Ordering Information

T	3	S	I	N	4	N	P	4	C	N	
Item	Digit	Alarm/Sub output	Control method	Power supply	Control output	Input type ^{※3}	Temperature range ^{※3}	Temperature unit	New ^{※1}	N	New type
										C	°C
										0	-99.9 to 99.9, -99 to 199°C, -99.9 to 199.9°C
										1	0 to 99.9°C
										2	0 to 200°C
										4	0 to 400°C
										5	0 to 500°C
										8	0 to 800°C
										A	0 to 999°C
										C	0 to 1200°C
										F	600 to 1600°C
Size	Digit	Alarm/Sub output	Control method	Power supply	Control output	Input type ^{※3}	Temperature range ^{※3}	Temperature unit	New ^{※1}	P	DPt100Ω
										J	J (IC)
										K	K (CA)
										R	R (PR)
Item	Digit	Alarm/Sub output	Control method	Power supply	Control output	Input type ^{※3}	Temperature range ^{※3}	Temperature unit	New ^{※1}	N	Indicator
										X	12-24VDC
										4	100-240VAC 50/60Hz
										N	Indicator
										I	Indicator
										N	DIN W48×H24mm
										Y	DIN W72×H36mm
										W	DIN W96×H48mm
										S	DIN W48×H48mm (8-pin plug type) ^{※2}
										H	DIN W48×H96mm
										M	DIN W72×H72mm
L	DIN W96×H96mm										
Item	Digit	Alarm/Sub output	Control method	Power supply	Control output	Input type ^{※3}	Temperature range ^{※3}	Temperature unit	New ^{※1}	3	999 (3 digit)
										4	9999 (4 digit)
										T	Temperature Controller

※1: Name plate and connections are different from previous T3/T4 Series.
 ※2: Sockets (PG-08, PS-08(N)) are sold separately.

(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

T3 / T4 Series

※3: Input type and temperature range by Series

Input type			Series		T3NI	T4YI, T4WI	T3SI	T3HI	T4MI, T4LI
			Model						
Thermocouples	K (CA)	0 to 200°C	2	●	-	-	-	-	-
		0 to 400°C	4	●	-	-	-	-	-
		0 to 800°C	8	●	-	●	-	●	-
		0 to 999°C	A	●	-	-	●	-	-
		0 to 1200°C	C	-	●	-	-	●	-
	J (IC)	0 to 200°C	2	●	-	-	-	-	-
		0 to 400°C	4	●	-	●	●	●	●
		0 to 500°C	5	●	●	-	-	-	-
R (PR)	600 to 1600°C	F	-	-	-	-	-	●	
RTD	DPT 100Ω	-99.9 to 99.9°C	0	●	-	-	-	-	-
		-99.9 to 199.9°C	0	-	●	-	-	-	●
		-99 to 199°C	0	-	-	-	●	-	-
		0 to 99.9°C	1	●	-	●	-	-	-
		0 to 200°C	2	●	-	-	-	-	-
		0 to 400°C	4	●	●	●	●	●	●

■ Specifications

Series	T3NI	T4YI	T4WI	T3SI	T3HI	T4MI	T4LI			
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)	3.8×7.6mm		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								
Dielectric strength	1,000VAC 50/60Hz for 1min. (between input terminal and power terminal)		2,000VAC 50/60Hz for 1min. (between input terminal and power terminal)							
	Vibration									
0.75mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each X, Y, Z direction for 2 hours										
Insulation resistance										
Min. 100MΩ (at 500VDC megger)										
Noise	Square-wave noise by noise simulator (pulse width 1μs) ±500V R-phase and S-phase		Square-wave noise by noise simulator (pulse width 1μs) ±2kV R-phase and S-phase							
Environment	Ambient temp.	-10 to 50°C, storage: -20 to 60°C								
	Ambient humi.	35 to 85% RH, storage: 35 to 85% RH								
Weight ^{※2}	Approx. 48g (Approx. 25g)		Approx. 181g (Approx. 123g)		Approx. 231g (Approx. 140g)		Approx. 120g (Approx. 80g)	Approx. 203g (Approx. 137g)	Approx. 202g (Approx. 137g)	Approx. 274g (Approx. 185g)

※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

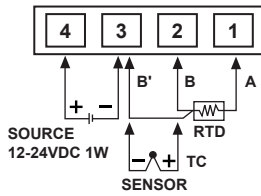
※2: The weight includes packaging. The weight in parentheses is for unit only.

※Environment resistance is rated at no freezing or condensation.

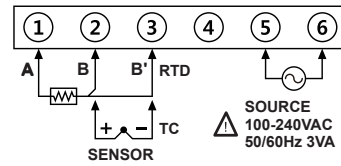
Temperature Indicator

■ Connections

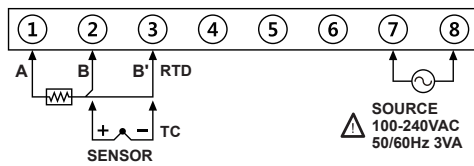
• T3NI



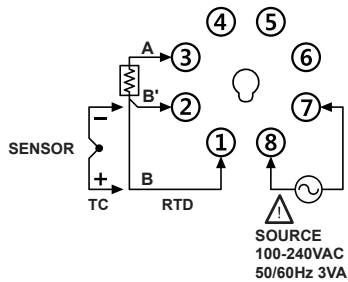
• T4YI



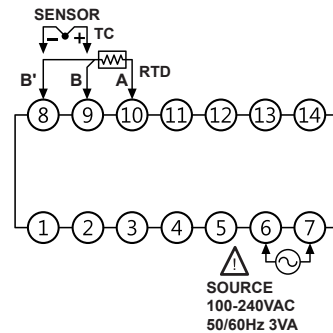
• T4WI



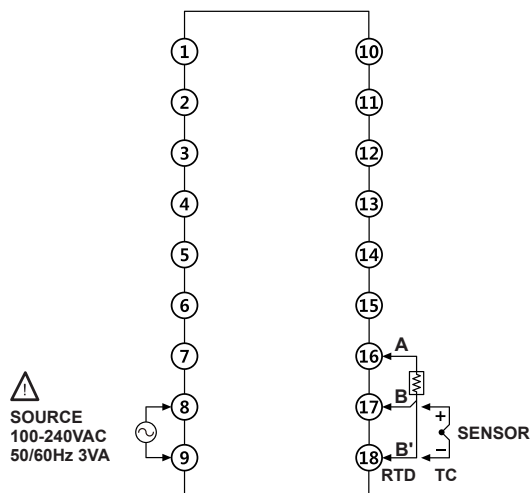
• T3SI



• T4MI



• T3HI, T4LI



(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

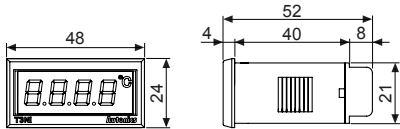
(T) Software

T3 / T4 Series

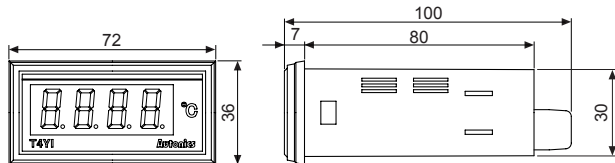
■ Dimensions

(unit: mm)

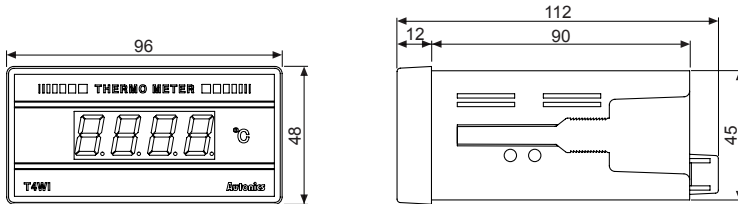
• T3NI



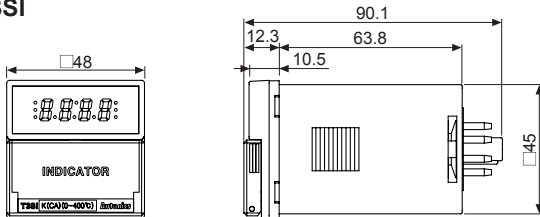
• T4YI



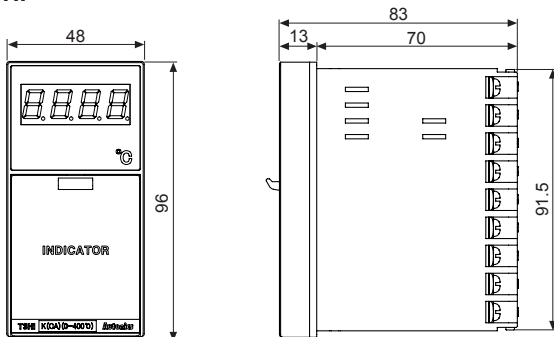
• T4WI



• T3SI

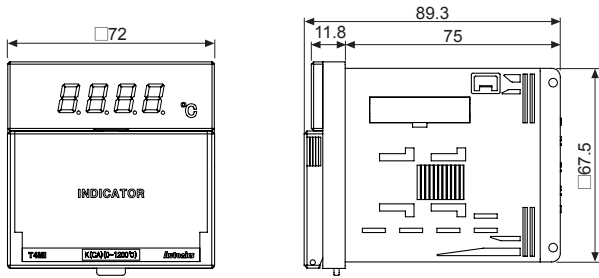


• T3HI



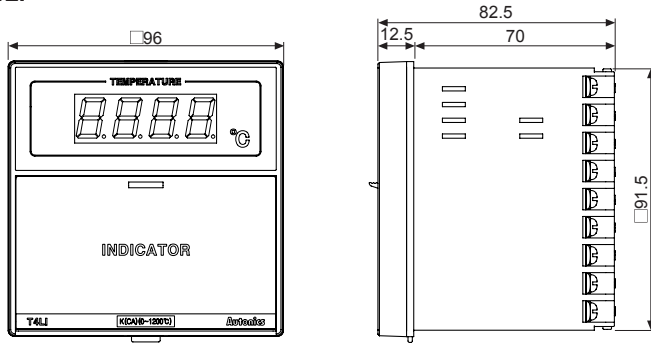
Temperature Indicator

• T4MI



(A)	Photoelectric Sensors
(B)	Fiber Optic Sensors
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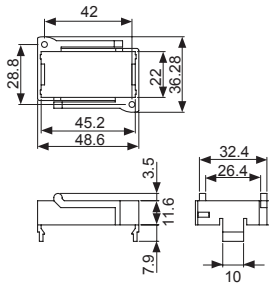
• T4LI



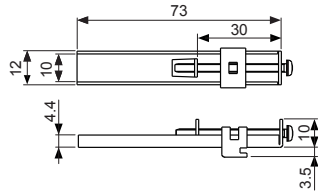
• Bracket

(unit: mm)

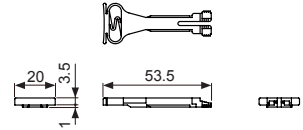
• T3NI Series



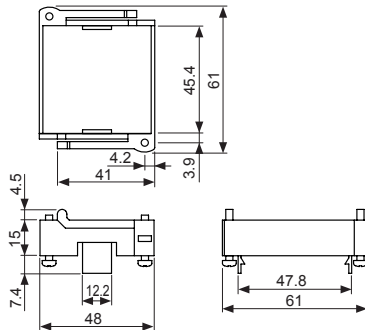
• T4YI Series



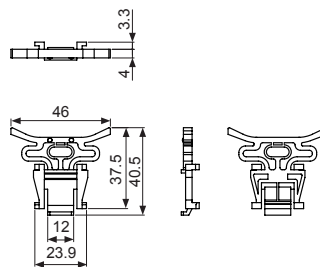
• T4WI Series



• T3SI Series



• T3HI/T4MI/T4LI Series

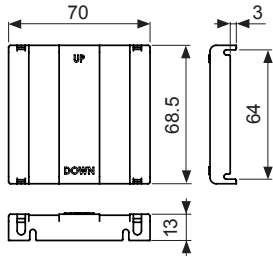


T3 / T4 Series

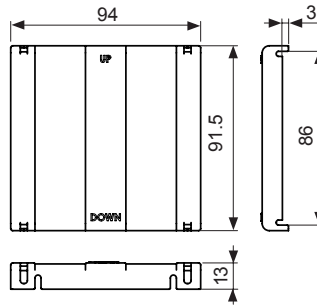
● Terminal cover (sold separately)

(unit: mm)

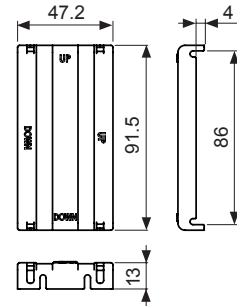
●RMA-COVER (72×72mm)



●RLA-COVER (96×96mm)

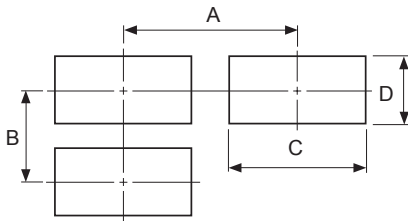


●RHA-COVER (48×96mm)



●Panel cut-out

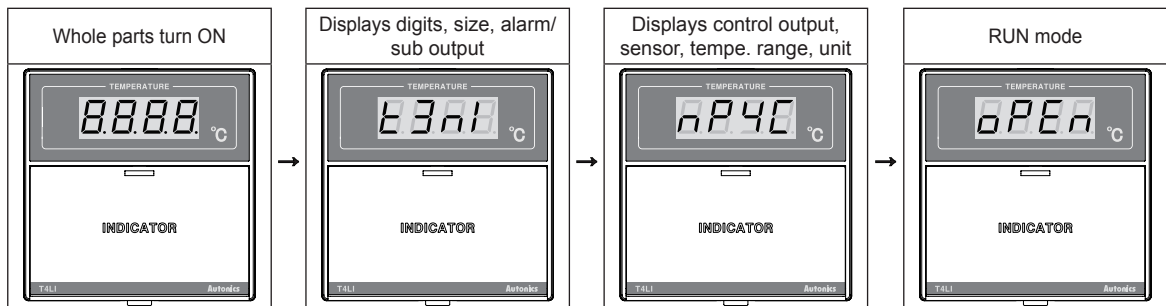
(unit: mm)



Series	Size	A	B	C	D
T3NI		Min. 55	Min. 37	45 ^{+0.5} ₀	22.2 ^{+0.3} ₀
T4YI		Min. 91	Min. 40	68 ^{+0.7} ₀	31.5 ^{+0.8} ₀
T4WI		Min. 116	Min. 52	92 ^{+0.8} ₀	45 ^{+0.8} ₀
T3SI		Min. 65	Min. 65	45 ^{+0.5} ₀	45 ^{+0.6} ₀
T3HI		Min. 65	Min. 115	45 ^{+0.5} ₀	92 ^{+0.8} ₀
T4MI		Min. 90	Min. 90	68 ^{+0.7} ₀	68 ^{+0.7} ₀
T4LI		Min. 115	Min. 115	92 ^{+0.8} ₀	92 ^{+0.8} ₀

■ Display When Power Is ON

When power is supplied, whole display parts turn ON for 1 sec. It displays digits, size, alarm/sub output and control output, sensor, temperature range, unit. Afterward, it returns to RUN mode.



■ Error Display

Display	Description	Troubleshooting
oPE n	Flashes when a temperature sensor is broken or not connected.	Check the status of the temperature sensor. When the sensor is connected correctly, it is clear.
HHHH	Flashes when the measured input value is higher than the temperature range of the sensor.	When the measured temperature is within the temperature range of the sensor, it is clear.
LLLL	Flashes when the measured input value is lower than the temperature range of the sensor.	