Indication type only, Various sizes

▣Features

- ●Various size
  : W48×H24, W72×H36, W48×H48, W48×H96, W72×H72, W96×H96mm
- ●No output function, Indication only
- ●High accuracy measuring function
  : F • S±0.3% or ±0.5%

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

▣Ordering information

T 3 S I – N 4 N P 4 C

Unit	C	℃
Temperature range	0	−99~199, −99.9~199.9, −99.9~99.9
	1	0~99.9
	2	0~199
	4	0~399
	5	0~500
	8	0~799
	A	0~999
	C	0~1200
	F	600~1600
Sensor input type	P	Pt100Ω
	J	J(IC)
	K	K(CA)
	R	R(PR)
Control output	N	No output
Power supply	X	12−24VDC
	3	110/220VAC 50/60Hz
	4	100−240VAC 50/60Hz
Control method	N	No control function
Sub output mode	I	Indicator
Size	N	DIN W48×H24mm
	Y	DIN W72×H36mm
	W	DIN W96×H48mm
	S	DIN W48×H48mm
	H	DIN W48×H96mm
	M	DIN W72×H72mm
	L	DIN W96×H96mm
Digit	3	3 Digit
	4	4 Digit
Item	T	Temperature

※See C-67 about sensor temperature range for selection.

▣Temperature range for each sensor

Model	T3NI	T4YI / T4WI		
Sensor input type	RTD	Thermocouples		RTD
	Pt100Ω	J(IC)	K(CA)	Pt100Ω
Standard scale range	399℃ 99.9℃ −99.9℃	500℃	1200℃	399℃ 199.9℃ −99.9℃

Model	T3SI			T3HI			T4MI / T4LI			
Sensor input type	Thermocouples		RTD	Thermocouples		RTD	Thermocouples			RTD
	J(IC)	K(CA)	Pt100Ω	J(IC)	K(CA)	Pt100Ω	J(IC)	K(CA)	R(PR)	Pt100Ω
Standard scale range	399℃	799℃	99.9℃ 399℃	399℃	999℃	199℃ 399℃ −99℃	399℃	799℃ 1200℃	1600℃ 600℃	199.9℃ 399℃ −99.9℃

※In case input sensor is R(PR) type, it is not available to perform correct control under 600℃.

▣Specifications

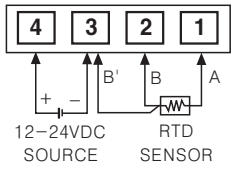
Model		T3NI	T4YI	T4WI	T3SI	T3HI	T4MI	T4LI
Power supply		12−24VDC	100−240VAC 50/60Hz	110/220VAC 50/60Hz	100−240VAC 50/60Hz	110/220VAC 50/60Hz		
Allowable voltage range		90 ~ 110% of rated voltage						
Power consumption		2W	3VA					
Display method		7 Segment LED Display						
Character size		W5×H8mm	W9.8×H14.2mm		W4×H8mm	W6×H10mm	W7.2×H9.8mm	W9.5×H14.2mm
Display accuracy		F · S ± 0.3% rdg ±1digit	F · S ± 0.5% rdg ±1digit					
Sensor input		Pt100Ω	Thermocouples(T.C) : K(CA), J(IC), R(PR) / RTD : Pt100Ω					
Input line resistance		Max. 5Ω per a wire	Thermocouples : Max. 100Ω / RTD : Max. 5Ω per a wire					
Insulation resistance		Min. 100MΩ (at 500VDC mega)						
Dielectric strength		2000VAC 50/60Hz for 1 minute						
Noise strength		±500V	±1kV the square wave noise(pulse width:1μs) by the noise simulator					
Vibration	Mechanical	0.75mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 1 hour						
	Malfunction	0.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 10 minutes						
Shock	Mechanical	300m/s² (Approx. 30G) 3 times at X, Y, Z direction						
	Malfunction	100m/s² (Approx. 10G) 3 times at X, Y, Z direction						
Ambient temperature		−10 ~ +50℃ (at non−freezing status)						
Storage temperature		−20 ~ +60℃ (at non−freezing status)						
Ambient humidity		35 ~ 85%RH						
Unit weight		Approx. 34g	Approx. 170g	Approx. 322g	Approx. 107g	Approx. 368g	Approx. 356g	Approx. 433g

※F.S is same with sensor measuring temperature range.
Ex) In case of using temperature is from −99.9 ~ 199.9℃, Full scale is 299.8.

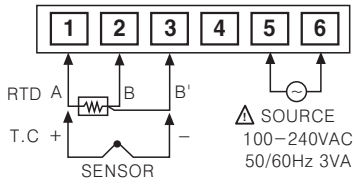
▣Connections

※RTD(Resistance Temperature Detector) : Pt 100Ω(3-wire type) ※Thermocouple : K, J, R

●T3NI



●T4YI



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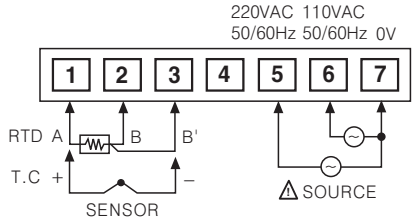

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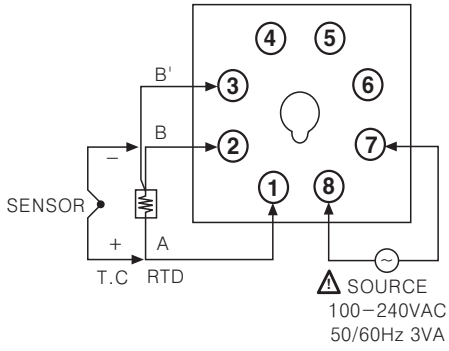

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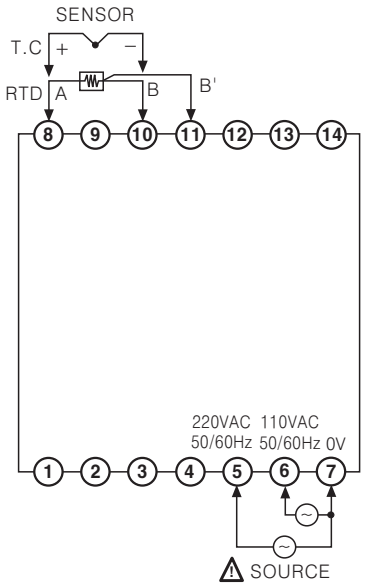

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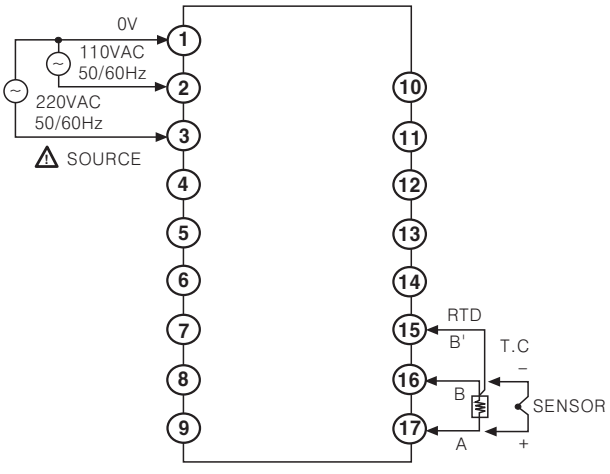

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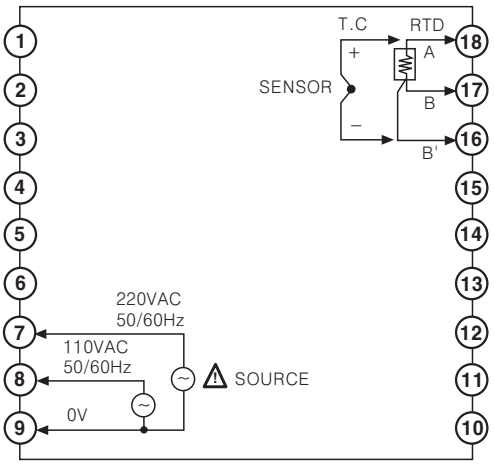
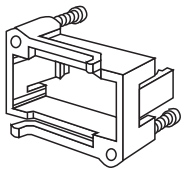
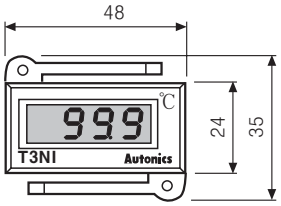


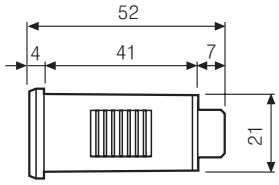
▣Dimensions

◎T3NI

●Bracket







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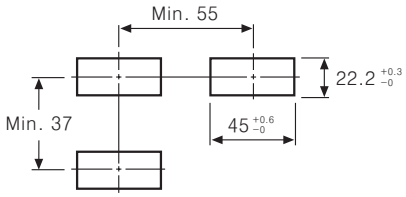

(Unit:mm)

◎T4YI

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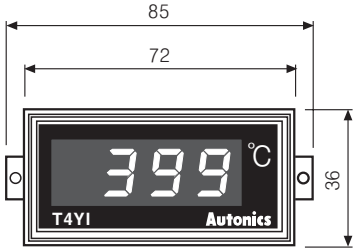

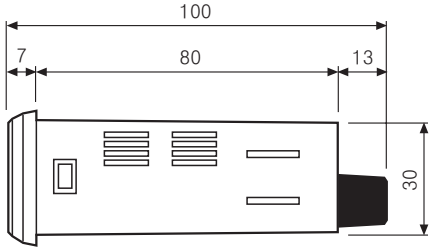

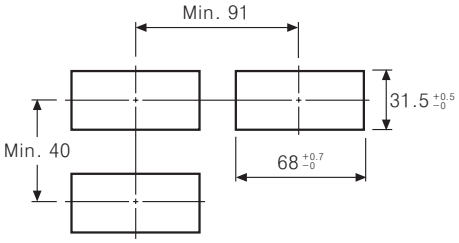

(Unit:mm)

◎T4WI

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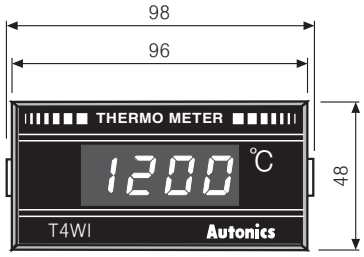
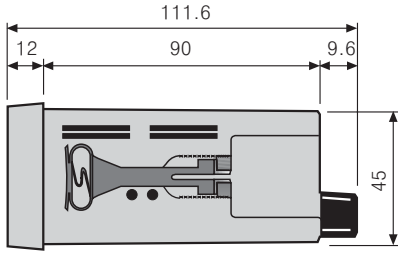
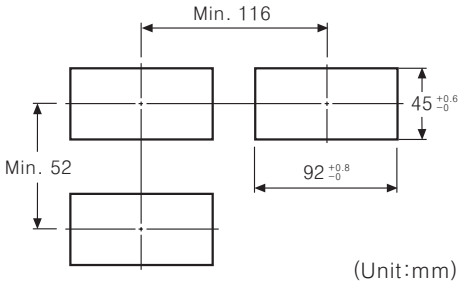


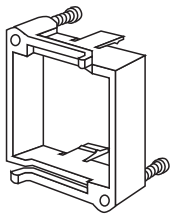




(Unit:mm)

◎T3SI

●Bracket



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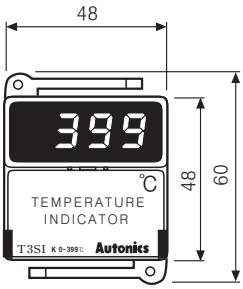
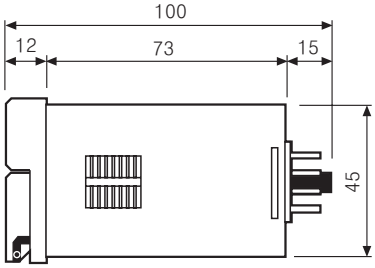
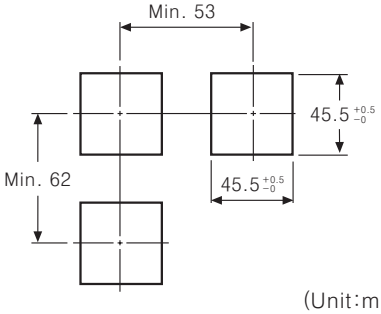


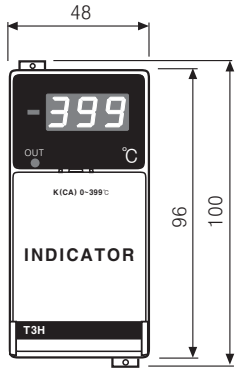


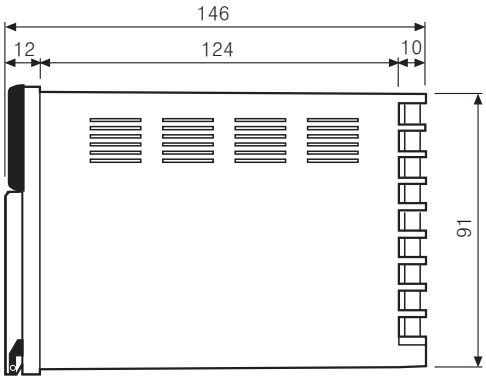


(Unit:mm)

▣Dimensions

●T3HI





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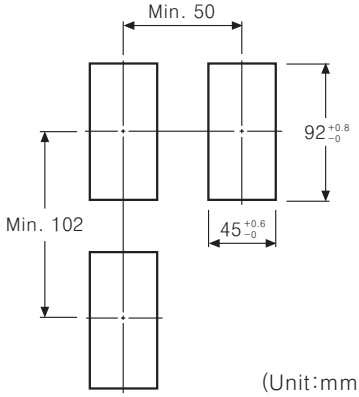
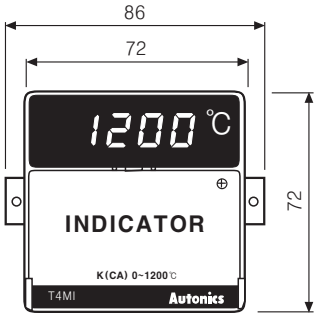
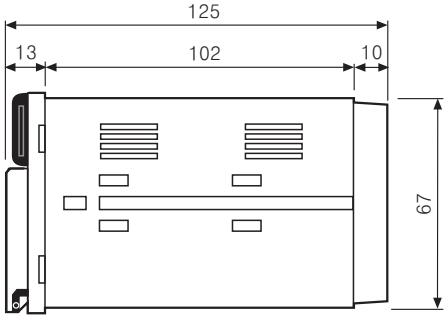


(Unit:mm)

●T4MI





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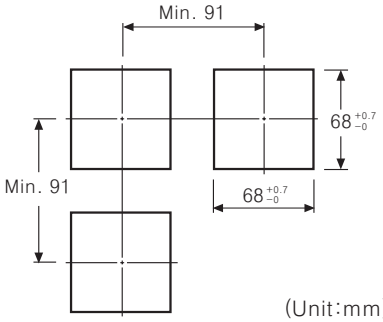
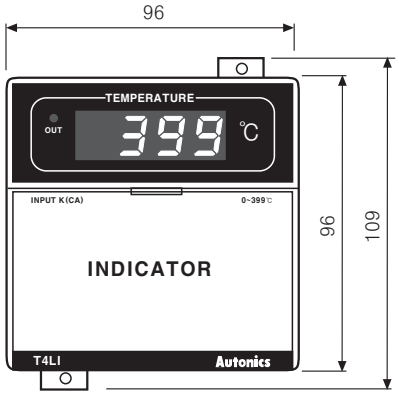
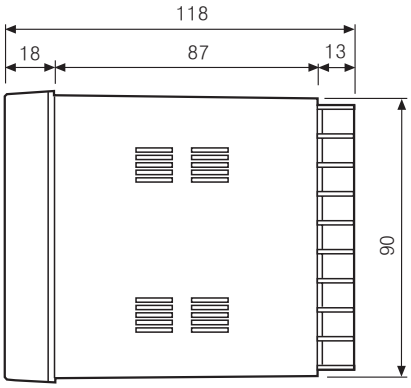


(Unit:mm)

●T4LI





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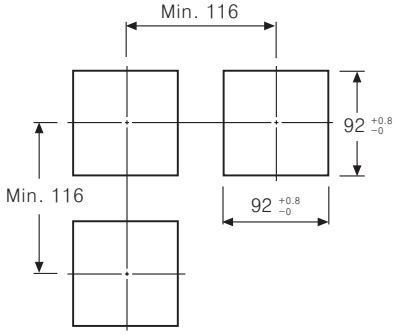

(Unit:mm)

▣Proper usage

◎T3NI

- ●T3NI is used exclusively for measuring the internal and actual temperature of panel.
- ●Since the RTD type of T3NI is not produced, please check items before selecting the product.
- ●The power supply of T3NI is 12-24VDC and AC power is not produced.
- ●RTD requires to use Pt100Ω 3-wires type and same length and thickness of lead wire.

◎The other items

- ●Please check a model name when choose the item since the thermocouple is marked the same sign with Pt100Ω. Ex)T4WI-N3NPO
- ●RTD requires to use Pt100Ω 3-wire type, and same length and thickness of lead wire.
- ●The extension wire of thermocouple must be used with the rated compensating wire or thermocouple strand.