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

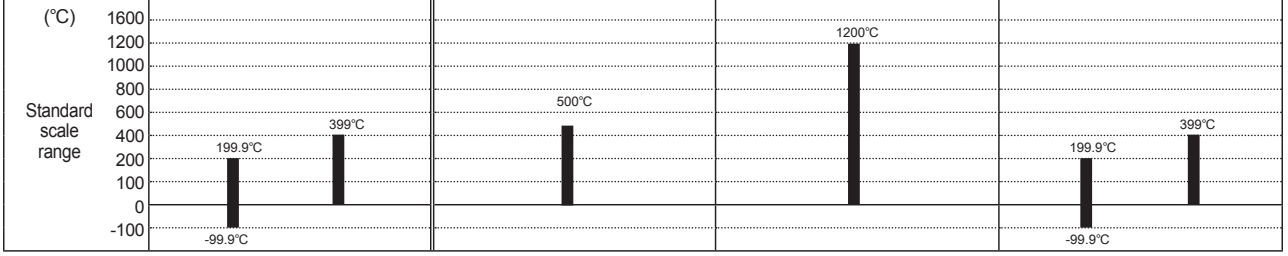
T 3 S I – N 4 N P 4 C

Unit	C	℃
Temperature range	0	-99 to 199, -99.9 to 199.9, -99.9 to 99.9
	1	0 to 99.9
	2	0 to 199
	4	0 to 399
	5	0 to 500
	8	0 to 799
	A	0 to 999
	C	0 to 1200
	F	600 to 1600
Sensor input type	P	DPt100Ω
	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	110-240VAC 50/60Hz
Control method	N	No control function
Sub output mode	I	Indicator Type
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	999(3digit)
	4	9999(4digit)
Item	T	Temperature Controller

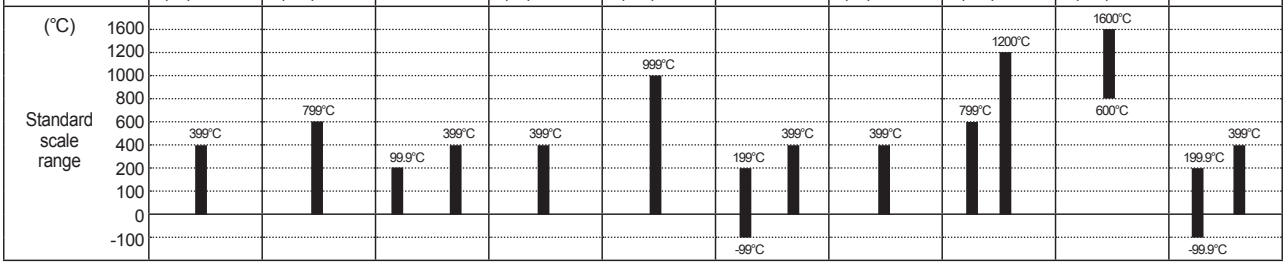
※**Refer to the H-119 about sensor temperature range for selection.**

■ Temperature range for each sensor

Model	T3NI	T4YI / T4WI		
Sensor input type	RTD	Thermocouples		RTD
	DPt100Ω	J(IC)	K(CA)	DPt100Ω



Model	T3SI			T3HI			T4MI / T4LI			
Sensor input type	Thermocouples		RTD	Thermocouples		RTD	Thermocouples			RTD
	J(IC)	K(CA)	DPt100Ω	J(IC)	K(CA)	DPt100Ω	J(IC)	K(CA)	R(PR)	DPt100Ω



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

■ Specifications

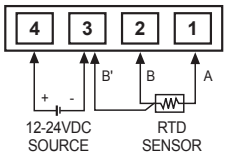
Model		T3NI	T4YI	T4WI	T3SI	T3HI	T4MI	T4LI
Power supply		12-24VDC	100-240VAC 50/60Hz	110-220VAC 50/60Hz	100/240VAC 50/60Hz	110/220VAC 50/60Hz		
Allowable voltage range		90 to 110% of rated voltage						
Power consumption		Max. 2W	Max. 3VA					
Display method		7 Segment LED display						
Character size		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		DPt100Ω	Thermocouples(T.C): K(CA), J(IC), R(PR) / RTD : DPt100Ω					
Input line resistance		Max. 5Ω per a wire	Thermocouples : Max. 100Ω / RTD : Allowable line resistance Max. 5Ω					
Insulation resistance		Min. 100MΩ(at 500VDC megger)						
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 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour						
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 minutes						
Shock	Mechanical	300m/s²(Approx. 30G) in each of X, Y, Z directions for 3 times						
	Malfunction	100m/s²(Approx. 10G) in each of X, Y, Z directions for 3 times						
Environ -ment	Ambient temperature	-10 to 50℃, storage: -20 to 60℃						
	Ambient humidity	35 to 85%RH, storage: 35 to 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 to 199.9℃, Full scale is 299.8.
※ Environment resistance is rated at no freezing or condensation.

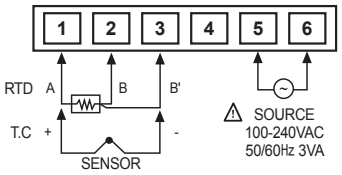
▣ Connections

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

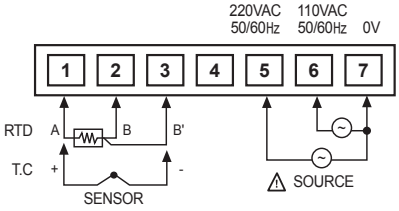
●T3NI



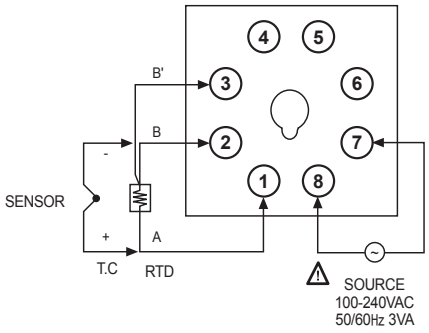
●T4YI



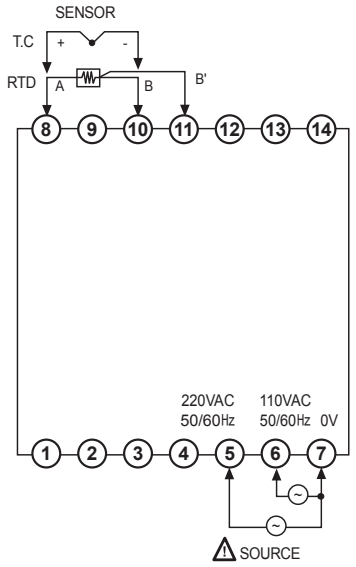
●T4WI ◎ T3HA, T3HS



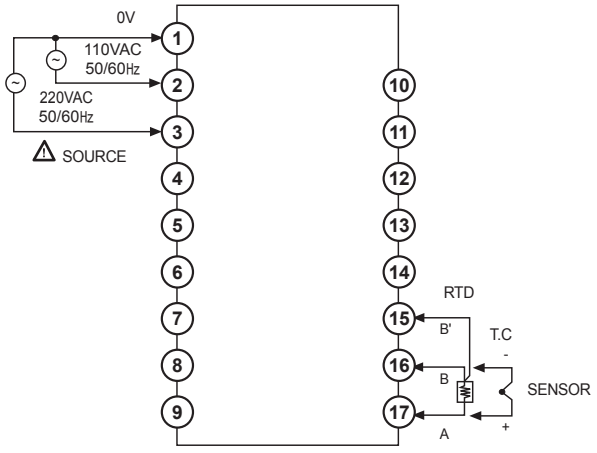
●T3SI



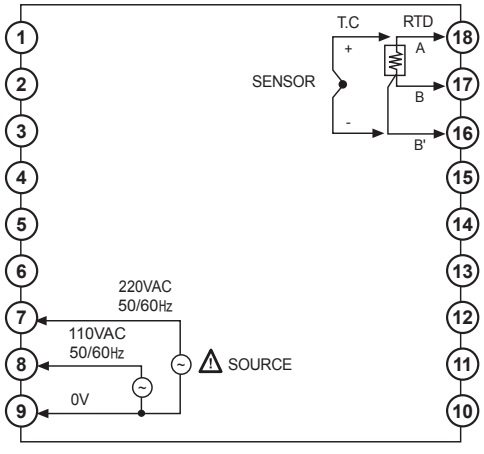
●T4MI



●T3HI



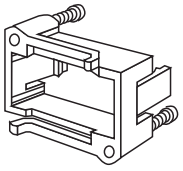
●T4LI

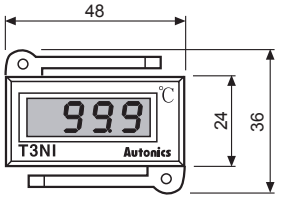


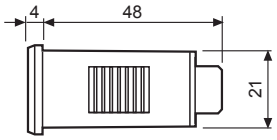
▣ Dimensions

◎ T3NI

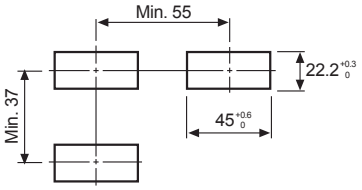
●Bracket





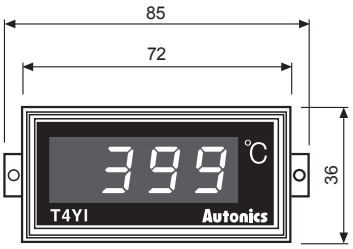


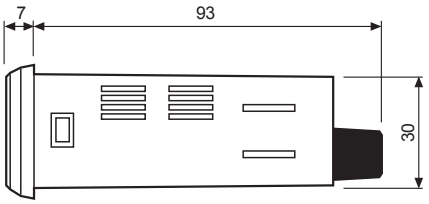
● Panel cut-out



(unit: mm)

◎ T4YI





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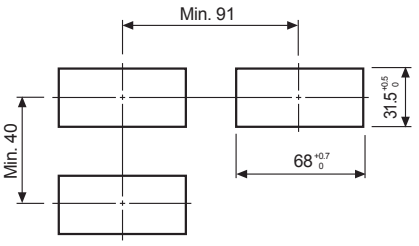
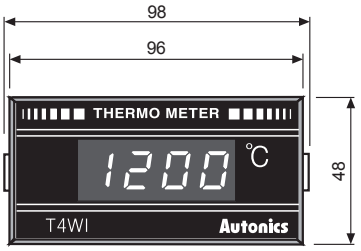
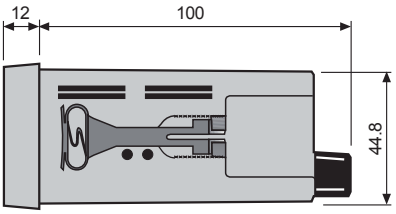


(unit: mm)

◎ T4WI





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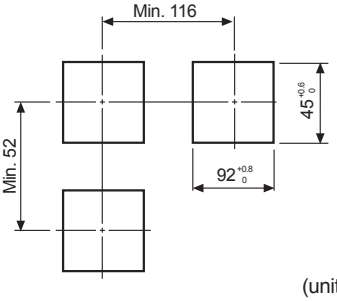
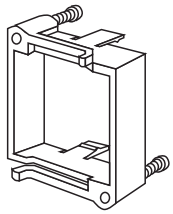
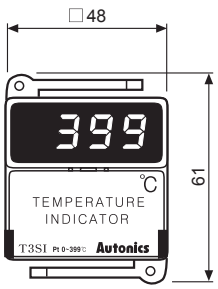


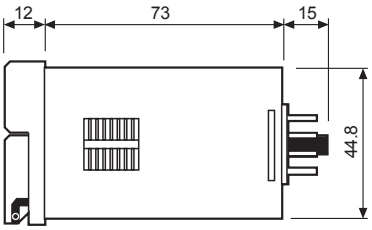
(unit: mm)

◎ T3SI

●Bracket







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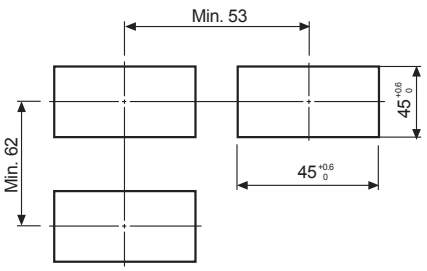
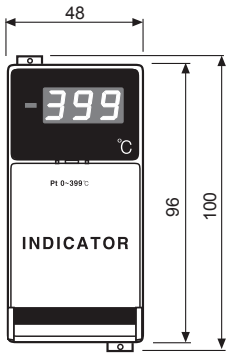
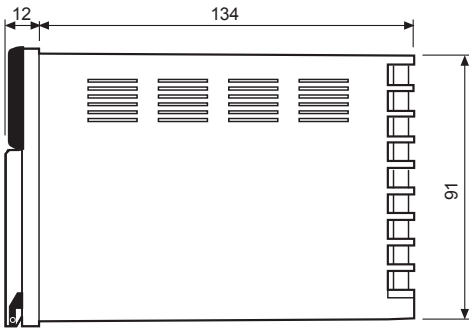


(unit: mm)

▣ Dimensions

●T3HI





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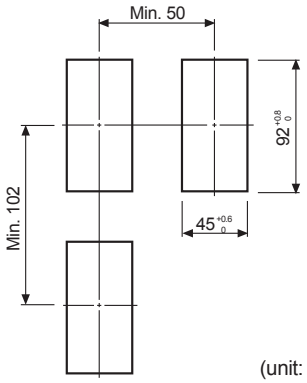
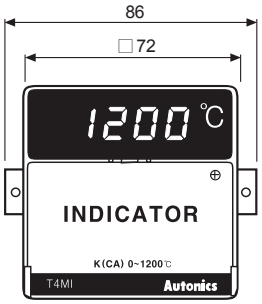
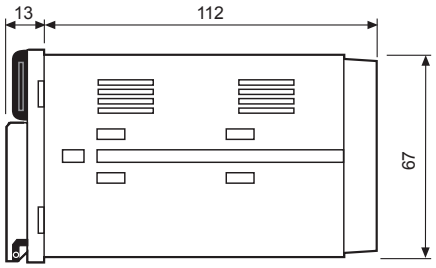


(unit: mm)

●T4MI





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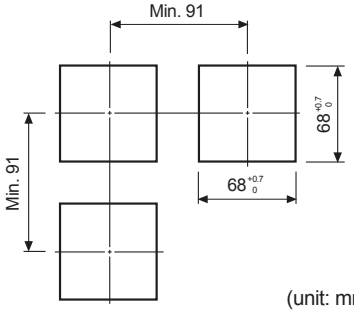
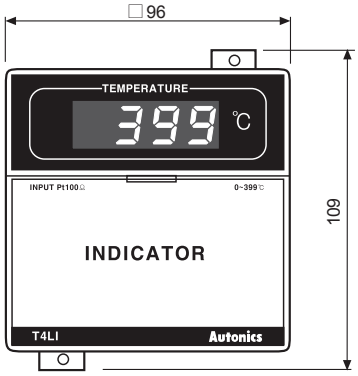
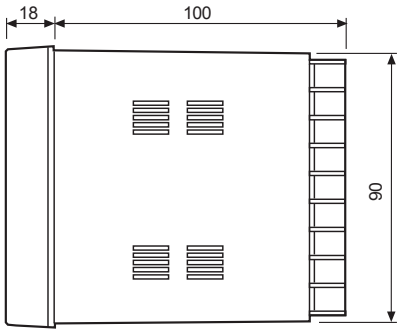


(unit: mm)

●T4LI





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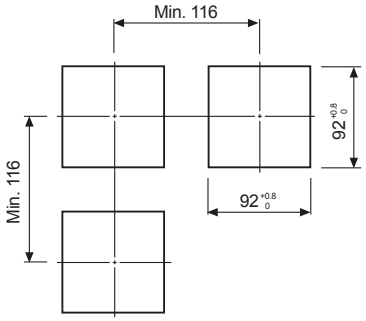

(unit: mm)

▣ Proper usage

◎ T3NI

- ●T3NI is used exclusively for measuring the internal and actual temperature of panel.
- ●Since the Thermocouple 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 DPt100Ω 3-wires type and same length and thickness of lead wire.

◎ The other Series

- ●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 DPt100Ω 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.

※Refer to the H-158 page for caution for using and simple error diagnosis.