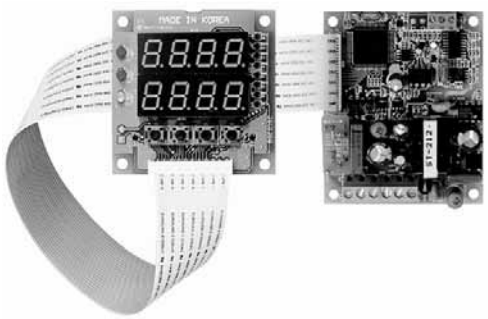
CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

Board type Temperature controller

▣Features

- ●High quality and economical product
- ●Convenient organization of panel to use
- ●Dual PID control
- ●Time reservation

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



▣Ordering information

TB 4 2 – 1 4 R

Output mode	R: Relay output S: SSR output C: Current output(DC4–20mA) N: PV Transmission output(DC4–20mA)
Power supply	4: 100–240VAC 50/60Hz
Sub output	1: EVENT1 output type
Display	2: 2 Display
Digit	4: 4 Digit
Item	TB: Temperature Board

※PV transmission output type does not have EVENT1 output.

▣Specifications

Model		TB42-14R	TB42-14S	TB42-14C	TB42-14N
Power supply		100–240VAC 50/60Hz ±10%			
Power consumption		Approx. max. 5VA			
Display method		7 Segment LED Display [Processing value(PV):Green, Setting value(SV):Red]			
Character size		W8×H10mm			
Input	Thermocouple	K(CA), J(IC) [Tolerance outer resistance is max. 100Ω]			
	RTD	Pt100Ω, JIS Pt100Ω [Allowable line resistance is max. 5Ω per a wire]			
Output	Relay	250VAC 3A 1a	————	————	————
	SSR	————	12VDC ±3V 30mA Max.	————	————
	Current	————	————	DC4–20mA Load 600Ω Max.	————
	Transmission	————	————	————	DC4–20mA, load Max. 600Ω for PV
Sub output		• Event1 output : Relay output(250VAC 0.5A 1a) • Event2 output : OK monitoring display by LED			
Control method		ON/OFF control, P, PI, PD, PIDF, PIDS			
Setting type		Front push buttons			
Display accuracy		F.S ±0.5% rdg ±1 Digit based on SV or 3℃ Max.			
Hysteresis		Adjustable 1 ~ 100℃(0.1 ~ 100.0℃) at ON / OFF control			
Proportional band(P)		0.0 ~ 100.0%			
Integral time(I)		0 ~ 3600sec			
Derivative time(D)		0 ~ 3600sec			
Control cycle(T)		1 ~ 120sec			
Sampling period		0.5sec fixed			
Dielectric strength		2000VAC 50/60Hz for 1 minute(Between input and power terminal)			
Vibration		0.75mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 2 hours			
Relay life cycle	Main output	Mechanical : Min. 10,000,000, Electrical : Min. 100,000(250VAC 3A resistive load)			
	Sub output	Mechanical : Min. 20,000,000, Electrical : Min. 200,000(250VAC 0.5A resistive load)			
Insulation resistance		Min. 100MΩ(500VDC mega)			
Noise strength		±2kV the square wave noise(pulse width:1㎲) by the noise simulator			
Memory protection		10 years(When using non-volatile semiconductor memory type)			
Ambient temperature		-10 ~ 50℃			
Storage temperature		-20 ~ 60℃			
Ambient humidity		35 ~ 85% RH			
Approval		c UL us			
Unit weight		Approx. 113.5g			

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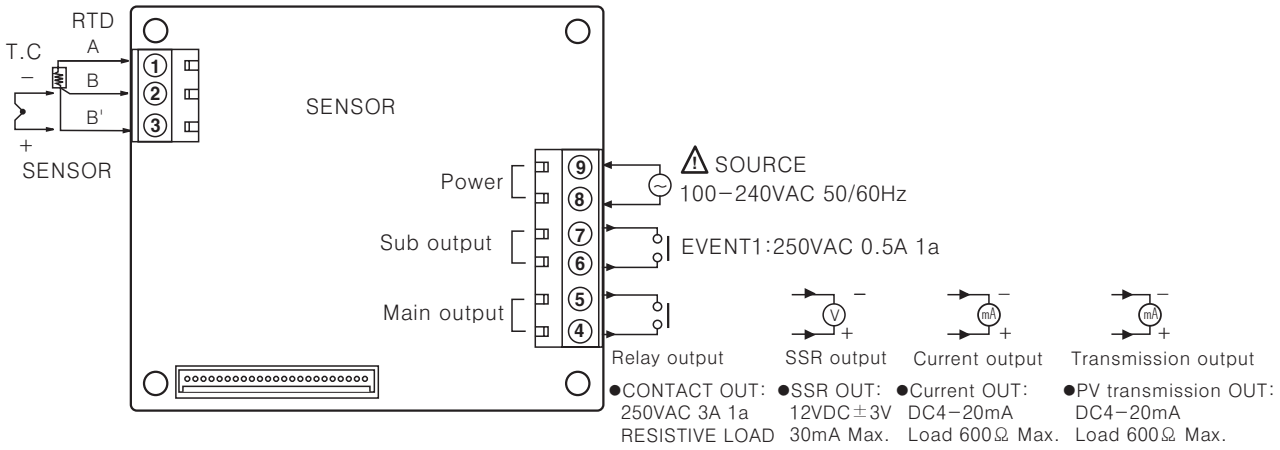
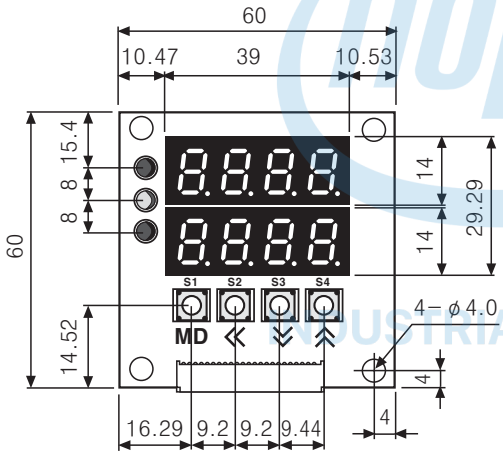
▣Connections

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

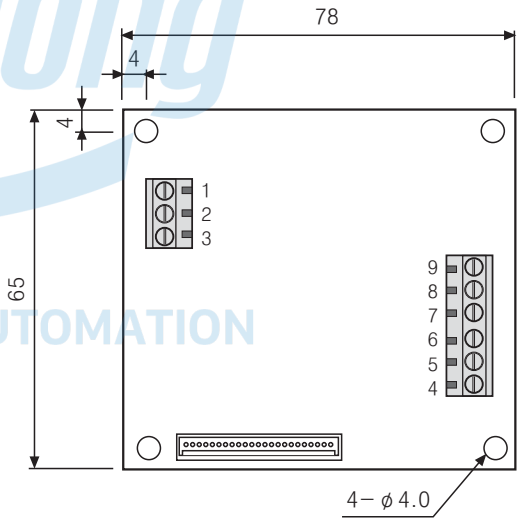


▣Dimensions

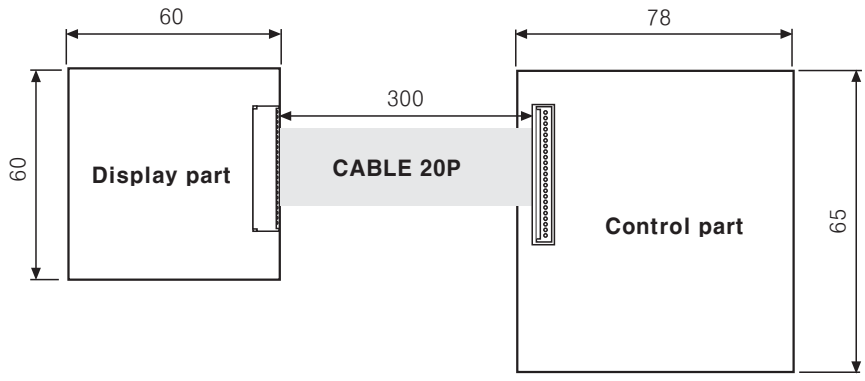
●Display part



●Control part



●Layout



(Unit : mm)

※Cable length is 300mm.
※The size of board is based on user's application. (Customizable)

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