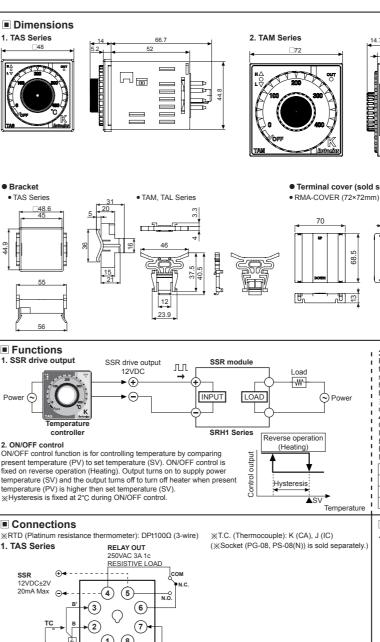


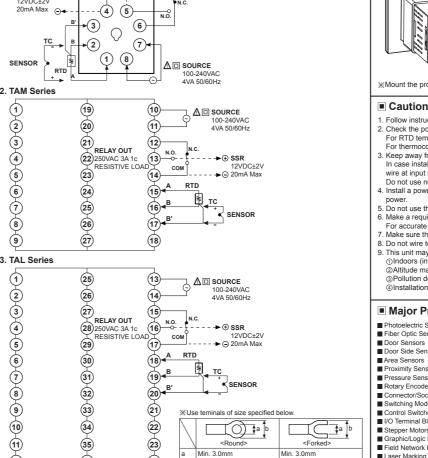
	ply	100-240VAC	$\sim 50/60$ Hz		
Allowable	voltage range		of rated voltage		
Power con		Max. 4VA			
Size		DIN W48 × H	I48mm DIN V	N72 × H72mm	DIN W96 × H96mm
Display me	ethod	Deviation LE	D (red, green), Outpu	ut LED (red)	·
Setting typ	e	Dial setting			
Setting acc	curacy		om temperature 23°C		
	TD			ce max. 5Ω per a wire	:)
	nermocouples	K (CA), J (IC	-		
Control -	N/OFF Control	Hysteresis: 2			
PI	D Control			ec/SSR drive output 2	sec
Control Re		250VAC~ 34			
utput SS	SR	Max. 12VDC			
unctions	i - d	-	indication, Error indi	cation	
ampling p		100ms	COLIZ for 1 minute (between input termina	l and newer terminal)
ielectric s	suengui				Y, Z direction for 2 hours
	Mechanical		000 operation (18,00		1, 2 0100101 2 110013
ycle	Electrical		operation (900 times	,	
-	resistance		(at 500VDC megger)		
loise strei	ngth	Square shape	ed noise by noise simi	ulator (pulse width 1µs)	±2kV R-phase and S-phase
lemory re	etention	Approx. 10 ye	ears (when using nor	n-volatile semiconduct	tor memory type)
	nbient temperatur		Storage: -20 to 60°C		
ment Ar	mbient humidity		I, Storage: 35 to 85%		
nsulation	type		ation or reinforced ins		part and the new or and Old 0
pproval			lectric strength betwee	en me measuring input	part and the power part: 2kV)
Approval Veight ^{×2}			(approx 60g) Approx	y 171g (approx 100g)	Approx. 232g (approx. 147g)
-	om temneratur	1.1.	100 °C model is F.S.	• • • • • •	,
				. ±3 // F.S. ±4%, Over 100°C	model is F.S. ±3%
2: The w	veight includes	packaging. The	e weight in parenthes	es is for unit only.	
Environn	nent resistance	is rated at no fi	reezing or condensat	tion.	
Fron	t Panel Ide	entificatio	n		
			[TAS :	Series] 7	8
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	on indicator	at tomporature	(D)() based on east t	emperature (C)/) by L	
snows de	eviation of prese	ent temperature		emperature (SV) by L	ED.
PV deviat	ion temperatu	re	Input deviation	i indicator ator: ● (green), ▲/▼ ((red)]
nput sens				ndicators flash (every	[ieu]]
) E ana)
EXCRED III					
	ax. input value			ndicator flashes (every	
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More than More than	10°C 2°C to less that		▲ ir °C ▲ + ● ir	ndicator flashes (every ndicator turns ON ndicators turn ON	
More than More than Less than	10°C 2°C to less that or equal to ±2°	C	▲ ir	ndicator flashes (every ndicator turns ON ndicators turn ON ndicator turns ON	
More than More than Less than More than	10°C 2°C to less than or equal to ±2° -2°C to less that	C	▲ ir	ndicator flashes (every ndicator turns ON ndicators turn ON ndicator turns ON ndicators turn ON	
More than More than Less than More than More than	10°C 2°C to less than or equal to ±2° -2°C to less that -10°C	C n or equal to -10	▲ ir	ndicator flashes (every ndicator turns ON ndicators turn ON ndicator turns ON ndicators turn ON ndicator turns ON	×This is the same as Fahrenheit
More than More than Less than More than More than Less than	10°C 2°C to less than or equal to ±2° -2°C to less that -10°C min. input value	C n or equal to -10 e		ndicator flashes (every ndicator turns ON ndicators turn ON ndicator turns ON ndicators turn ON ndicator turns ON ndicator flashes (every	(0.5 sec) * This is the same as Fahrenheit (°F).
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More than More than Less than More than More than Less than Vhen pov . Set temp	10°C 2°C to less that or equal to ±2° -2°C to less that -10°C min. input value wer is on, all perature (SV) of	C n or equal to -10 e indicators lig dial		ndicator flashes (every ndicator turns ON ndicators turn ON ndicator turns ON ndicators turn ON ndicator turns ON ndicator flashes (every they turn off and c	(0.5 sec) * This is the same as Fahrenheit (°F).
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More than More than More than More than ess than Vhen pov . Set temp ial to char . Input se ndicates se	10°C 2°C to less than or equal to ±2° -2°C to less than -10°C min. input value wer is on, all perature (SV) of nege set temperat insor ensor type of pro-	C n or equal to -1(e indicators lig dial ature (SV). Whe resent value. Inj		ndicator flashes (every ndicator turns ON ndicators turn ON ndicators turn ON ndicator turns ON ndicator turns ON ndicator flashes (every they turn off and c erature, it is applied aff put range each product	(0.5 sec) *This is the same as Fahrenheit ('F). ontrol operation starts.
More than More than More than More than ess than Vhen pov . Set temp ial to char . Input se ndicates se	10°C 2°C to less than or equal to ±2° -2°C to less than -10°C min. input value wer is on, all perature (SV) of nege set temperat insor ensor type of pro-	C n or equal to -1(e indicators lig dial sture (SV). Whe	▲ ir °C ▲ + ir ● ir 0°C ● + v ▼ ir ▼ ir ▼ ir ▼ ir ↓ ir	ndicator flashes (every ndicator turns ON ndicators turn ON ndicators turn ON ndicators turns ON ndicator turns ON ndicator flashes (every they turn off and c erature, it is applied aff put range each produc Input range (°F)	(0.5 sec) (0.5 sec) (0.5 sec) ontrol operation starts. ter 2 sec for the stable input.
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More than More than More than More than Less than Uhen pov Set temp Dial to char Locates se	10°C 2°C to less than or equal to ±2° -2°C to less than -10°C min. input value wer is on, all perature (SV) of nege set temperat insor ensor type of pro-	C no requal to -11 no requal to -11 no requal to -11 noticators lig dial titure (SV). Whe resent value. Ing Range No. 1 2	A irr C ▲ + ● irr O'C ● + ♥ irr O'C ● + ♥ irr V irr V irr I't for 2 sec, then n changing set temper put sensor type or ing Input range (°C) O to 100 O to 200	ndicator flashes (every ndicator turns ON ndicators turn ON ndicators turn ON ndicator turns ON ndicator turns ON ndicator flashes (every they turn off and c erature, it is applied aff put range each produc Input range (°F) 32 to 212 32 to 392	(0.5 sec) (0.5 sec) (0.5 sec) ontrol operation starts. ter 2 sec for the stable input.
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More than More than ess than More than ess than Vhen pov . Set tem ial to char Input se dicates si nput Sen Chermo- couple	10°C 2°C to less that or equal to ±2° -2°C to less that -2°C to less that -2°C to less that -10°C min. input value wer is on, all perature (SV) (mesor type of pro- sor K (CA) J (IC) DPt100Ω ature unit emperature unit ature unit ature unit	C n or equal to -11 e indicators lig dial tture (SV). Whe esent value. Inj Range No. 1 2 4 6 8 C 2 3 4 0 0 1 2 4 4 (°C, °F) of set f	▲ iri °C ▲ + iri O°C ● + iri O°C ● + iri Image: Second Sec	dicator flashes (every ndicator turns ON ndicators turn ON ndicators turn ON ndicators turn ON ndicator turns ON ndicator flashes (every they turn off and c erature, it is applied aff put range each produc Input range (°F) 32 to 212 32 to 392 32 to 752 32 to 1,112 32 to 2,192 32 to 2,192 32 to 572 32 to 752 -58 to 212 32 to 752 -58 to 212 32 to 2,192 32 to 752 -58 to 212 32 to 392 32 to 752 -58 to 212 32 to 392 32 to 752 -58 to 212 32 to 392 32 to 752	(0.5 sec) ** This is the same as Fahrenheit (°F). ontrol operation starts. (°F). ter 2 sec for the stable input. tis shown in the below table. ** Set temperature within ************************************
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More than More than Less than More than Less than Vhen pov. Set tem Dial to char Input sen dicates si nput Sen Thermo- couple	10°C 2°C to less that or equal to ±2° -2°C to less that -2°C to less that -2°C to less that -10°C min. input value wer is on, all perature (SV) i nge set tempera- misor ensor type of pri- sor Sor J (IC) DPt100Ω ature unit emperature range emperature range emperature range control (front priging the control i block	C n or equal to -11 e indicators lig dial ture (SV). Whe esent value. Inp Range No. 1 2 4 6 8 C 2 3 4 0 0 1 2 4 (°C, °F) of set t ge of set tempe or tput (Relay Out n switch art) or ON/OFF i method, ture of	A irr irr irr if A + ● irr irr irr if C A + ● irr irr irr if for 2 sec, then in thanging set temper put sensor type or ing Input range (°C) 0 to 100 0 to 200 0 to 400 0 to 200 0 to 400 0 to 200 0 to 400 0 to 100 0 to 200 0 to 100 0 to 100 0 to 200 0 to 400 0 to 100 0 to 200 0 to 400 0 to 100 0 to 100 0 to 200 0 to 400 to 400 to 400 to 400 to to 100 0 to 100 0 to 200 to 400 to control (rear part) us	dicator flashes (every dicator turns ON dicators turn ON dicators turn ON dicator turns ON dicator turns ON dicator turns ON dicator flashes (every they turn off and c erature, it is applied aff put range each produc input range (°F) 32 to 212 32 to 392 32 to 752 32 to 1,112 32 to 2,192 32 to 2,192 32 to 2,192 32 to 572 32 to 572 32 to 572 32 to 752 -58 to 212 32 to 392 32 to 752 32 to	(0.5 sec) ** This is the same as Fahrenheit (0.5 sec) (0.5 sec) (°F). ontrol operation starts. ter 2 sec for the stable input. tt is shown in the below table. ** Set temperature within input range each sensor.

TAS

TAM

TAL





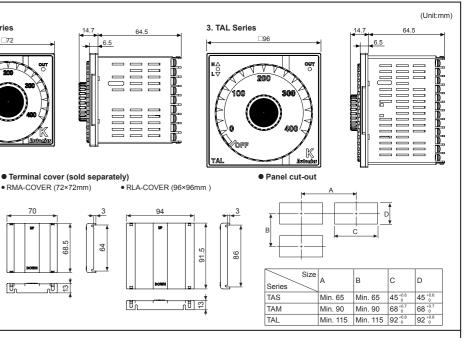
12

(36)

24

b Max.5.8mm

Max.5.8mm



1 3. PID Control

70

≜SV

Temperature

⊐ [b].

PID constants are suggested and implemented based on self tuning from supply power until reaching set PriD constants are suggested and implemented based on sent tuning from supply power unit reaching set temperature (SV), then self tuning is over after reaching set temperature (SV). When power supply, in case that set temperature (SV) dial points at OFF or self tuning can not be started because present temperature (PV) is higher than set temperature (SV) or hunting occurs during self tuning, output control is switched to proportion band (P) because that is considered to error. At that time, proportion band is fixed at 10°C. %Control cycle of PID control and proportion control is 20 sec in relay output model and 2 sec in SSR drive output model. output model. 4. STOP

Control output could stop without power off by setting the front setting volume to below min. setting range. If control output stops by STOP function, green indicator in deviation indicator (•) will flash every 1 sec.

5. Error Error mark will flash (every 1 sec) in PV indicator when error occurs during the control operation It will operate normally, if input sensor is connected or temperature is returned to normal range.

Display	Description
▲ + ● + ▼ indicators flash	If input sensor is broken or sensor is not connected.
 indicator flashes 	If measured sensor input is higher than temperature range.
 indicator flashes 	If measured sensor input is lower than temperature range.

Installation

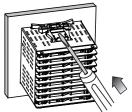
No

2

3







Mount the product on the panel and securely push the bracket in using a tool, as shown in the diagram

Cautions during Use

1. Follow instructions in 'Cautions during Use'. Otherwise. It may cause unexpected accidents.

- Check the polarity of the terminals before wing the temperature sensor.
 Check the polarity of the terminals before wing the temperature sensor.
 For RTD temperature sensor, wire it as 3-wire type, using cables in same thickness and length.
- For the monocupie (CT) temperature sensor, use the designated compensation wire for extending wire. 5 Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded
- wire at input signal line. Do not use near the equipment which generates strong magnetic force or high frequency noise. 4. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the
- Do not use the unit for other purpose (e.g. voltmeter, ammeter), but temperature controller
- 6. Make a required space around the unit for radiation of heat.
- For accurate temperature measurement, warm up the unit over 20 min after turning on the power. Make sure that power supply voltage reaches to the rated voltage within 2 sec after supplying power. 8. Do not wire to terminals which are not used.
- This unit may be used in the following environments.
 ①Indoors (in the environment condition rated in 'Specifications')
- ②Altitude max. 2.000m
- Pollution degree 2
 Installation category II

Major Products

- Photoelectric Sensors Temperature Controllers
- Fiber Optic Sensors Temperature/Humidity Transducers SSRs/Power Controllers
- Door Sensors Door Side Sensors Counters
- Timers
 Panel Meters Proximity Sensors
- Tachometer/Pulse (Rate) Meters Pressure Sensors Display Units
- Rotary Encoders
- onnector/Sockets Sensor Controllers
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controller
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, Co2, Nd: YAG)

Laser Welding/Cutting System

Autonics Corporation http://ww

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- E-mail: sales@autonics.com

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