

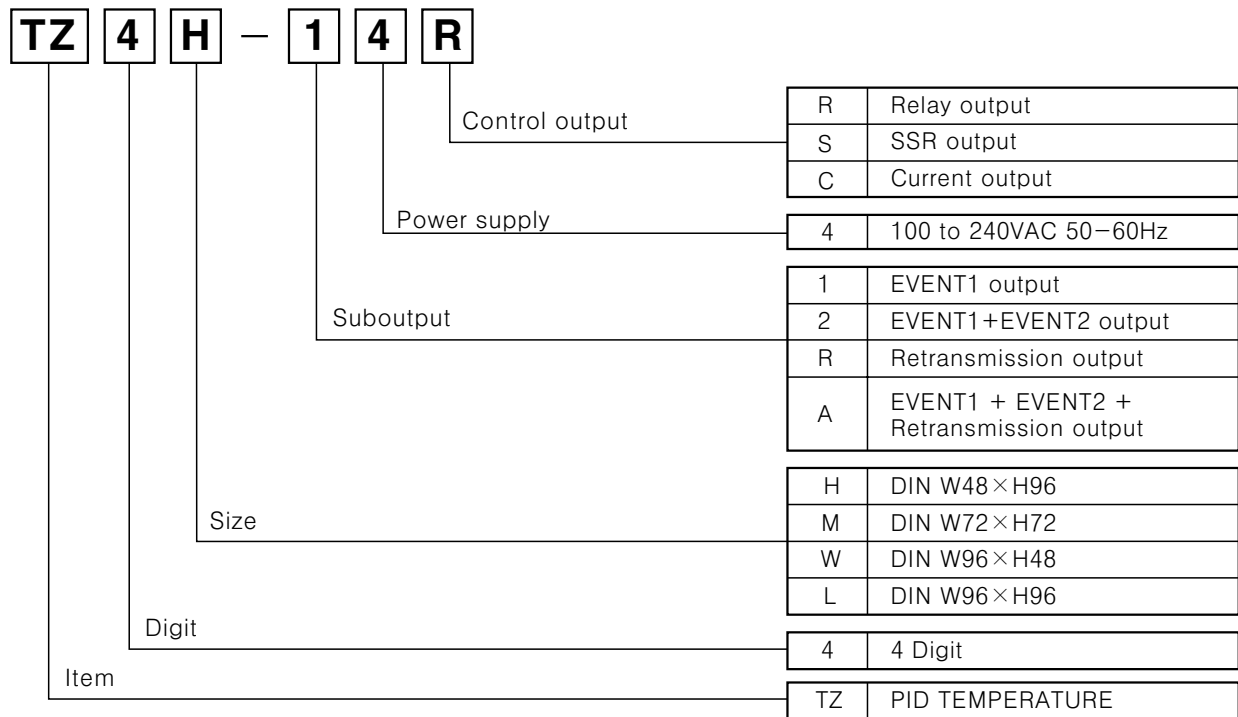
Dual PID Auto tuning controller

■ Features

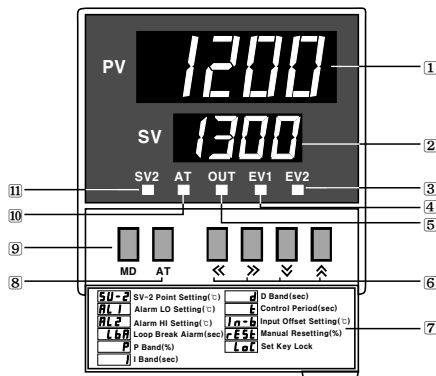
- Multi-input type selectable 15 kinds of input modes.
- Diverse output for Relay output, SSR output, Current output(4 to 20mA), Sub-output(EVENT1, EVENT2)
 - ※ Each EVENT1, EVENT2 can select one mode among 7 kinds of alarm modes & LBA, SBA
 - ※ TZ4SP has EVENT1 only.
- Free power voltage. 100 to 240VAC 50-60Hz, 100 to 240VDC
- Dual PID function selectable fast response PID action(PIDF) or slow response PID action(PIDS).
 - ※ PIDS mode is to minimize overshoot.
- Indicating accuracy of $\pm 0.3\%$ (F.S)



■ Ordering information



■ Part name



※PRODUCT : TZ4M(W72×H72mm)

- 1 PV:Processing value indicator(Red color)
- 2 SV:Setting value indicator(Green color)
- 3 EV2:EVENT2 Output signal lamp.
- 4 EV1:EVENT1 Output signal lamp.
- 5 OUT:Output signal lamp.
- 6 <> : Key shifting the display.
 ↕ ↗ : Up/Down key.
- 7 Information for operation mode.
- 8 AT Key:The mode key to execute Auto tuning function.
- 9 MD Key:The mode key to change the items to be set, such as alarm value, etc.
- 10 AT:Flashing signal lamp while Auto tuning is being executed.
- 11 SV2:Signal lamp for SV2 operation.

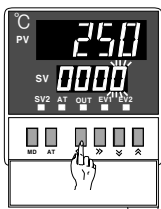
DUAL PID AUTO TUNING TYPE

Rating

Model	TZ4H	TZ4M	TZ4W	TZ4L
Power supply	100 to 240VAC 50–60Hz			
Operating voltage range	90 to 110% of rated voltage			
Power consumption	About 6VA			
Display method	7Segment LED display 【processing value(PV):red color, setting value(SV):green color】			
Input sensor	Thermocouple:K(CA), J(IC), R(PR), E(CR), T(CC), S(PP), N(NN), W(TT)(tolerance outer resistive is 100Ω)			
	RTD:DIN Pt100Ω, JIS Pt100Ω, (3 wires type, tolerance of outer resistive is 5Ω per a wire)			
	Voltage:1 to 5VDC, 0 to 10VDC, Current:DC4 to 20mA			
Control method	ON/OFF Control(Hysteresis:1 to 100℃ adjustable)			
	P, PI, PD, PIDF, PIDS			
Control output	Relay output:250VAC 3A SPDT(1c)			
	SSR output:12VDC ±2V 30mA Max.			
	Current output:DC4 to 20mA(load : Max. 600Ω)			
Retransmission output	PV value : DC4 to 20mA(load : Max. 600Ω)			
Sub output	EVENT1,2 output:Relay output 250VAC 1A SPST(1a)			
Indicating accuracy	±0.3% based on SV or 3℃ Max.			
Setting accuracy	Setting by front push buttons			
Hysteresis	Adjustable 1 to 100(0.1 to 100.0)℃ at ON / OFF control action			
Proportional band(P)	0 to 100%			
Integral time(I)	0 to 3600sec.			
Derivative time(D)	0 to 3600sec.			
	1 to 120sec.			
Sampling time	0.5sec.			
LBA setting time	1 to 999sec.			
RAMP setting time	Ramp up, Ramp down at 1 to 99 minute			
Dielectric strength	2000VAC for 1min. Between power circuit and external sensor power.			
Mechanical durability	5 to 55Hz 0.5mm double amplitude at X, Y, Z directions for 2 hour			
Insulation resistance	Min. 100MΩ (500VDC)			
Noise	±2KV R Phase & S Phase 1μs			
Memory retention	10 years(by EEPROM)			
Ambient operating temperature	-10 to 50℃ (at non-freezing status)			
Ambient storage temperature	-20 to 60℃ (at non-freezing status)			
Ambient humidity	35 to 85% RH			
Weight	About 259g	About 270g	About 270g	About 360g

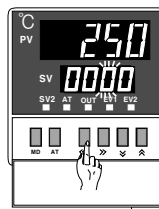
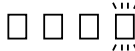
※The weight of above chart is net weight.

How to change the set value

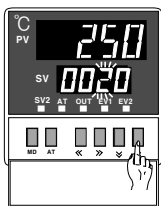
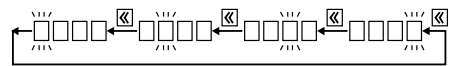


- 1 In case of changing the set value at status of RUN, push "◀" key.

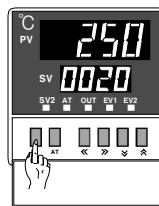
10⁰ digit of SV indicator will be flashed.



- 2 Push "◀" key, and then the digit will be shifted step by step.



- 3 Push "▲" or "▼" at the flashing digit, and then change the set value.

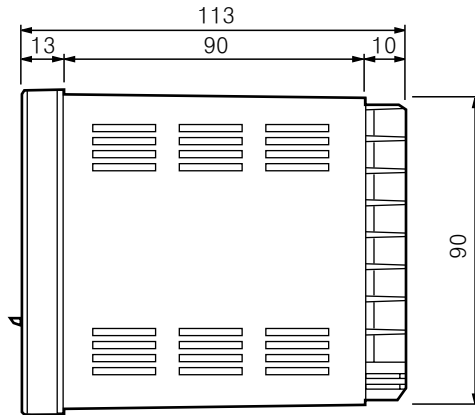
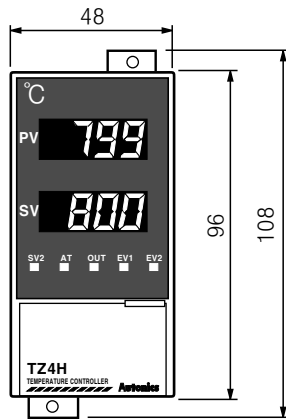


- 4 Push MD key after setting the set value to be changed and then flashing of the digit stops and the reset value is applied at status of RUN.

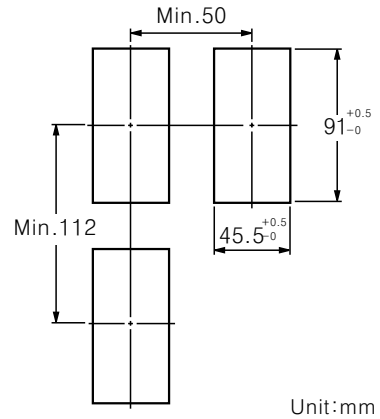
TZ SERIES

Dimension

●TZ4H

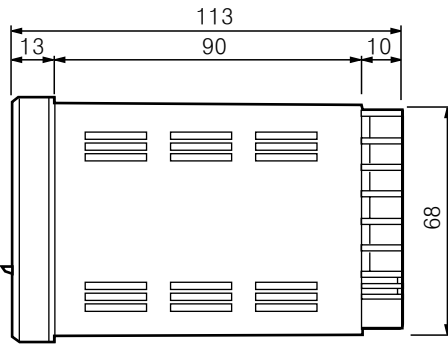
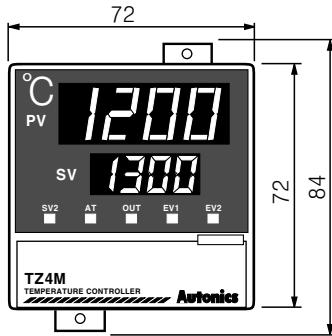


●Panel Cut-out

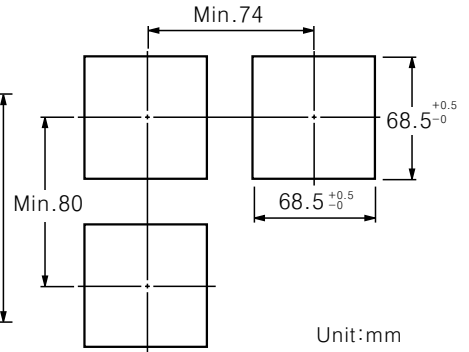


Unit:mm

●TZ4M

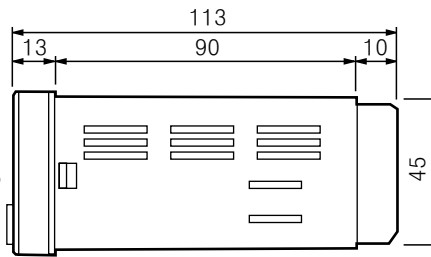
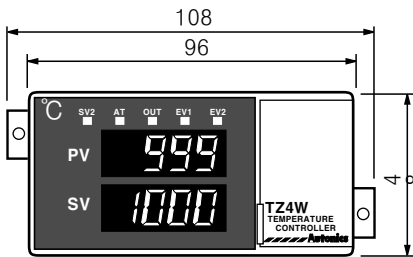


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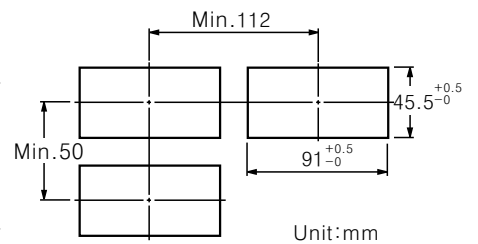


Unit:mm

●TZ4W

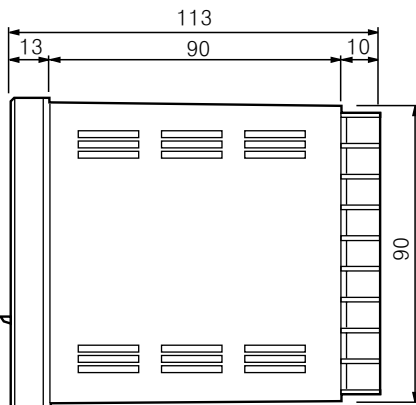
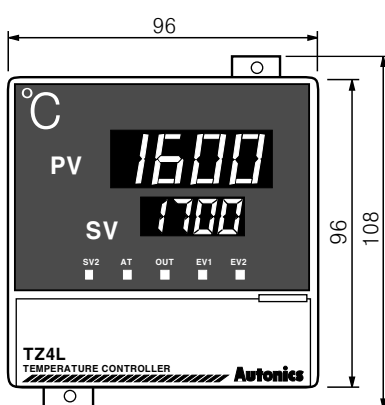


●Panel Cut-out

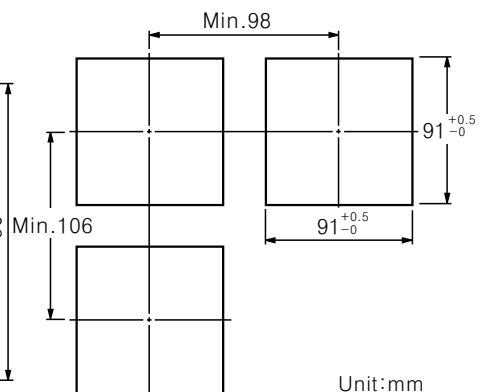


Unit:mm

●TZ4L



●Panel Cut-out

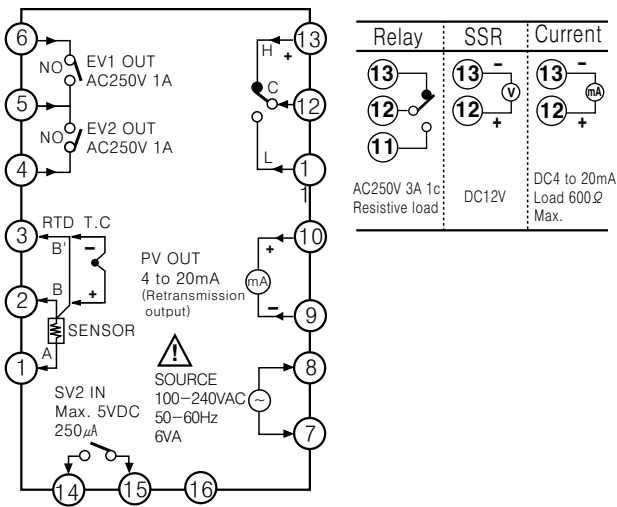


Unit:mm

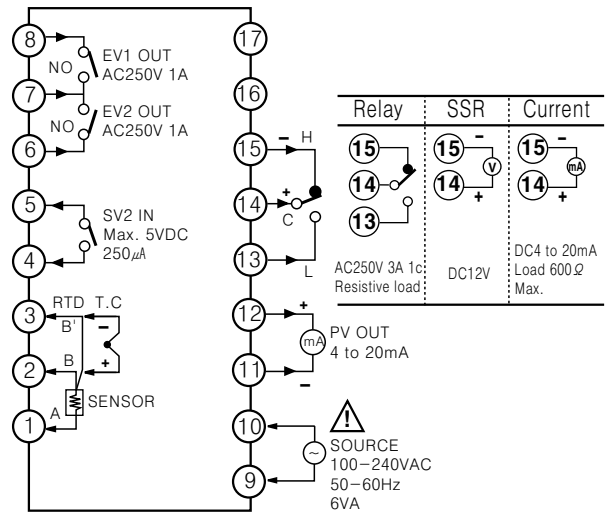
DUAL PID AUTO TUNING TYPE

■ Connections

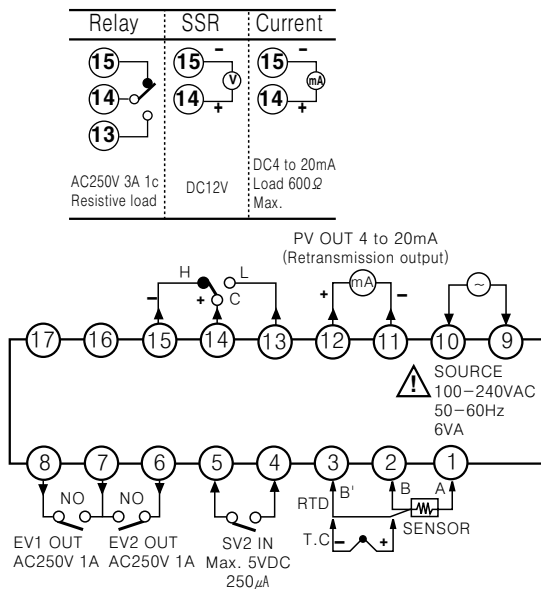
● TZ4M



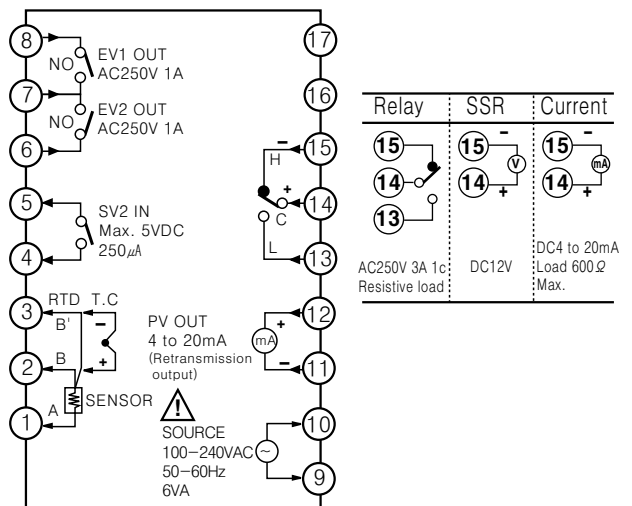
● TZ4H



● TZ4W



● TZ4L



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