Temperature Adjuster Instruction manual is a http://fa.misumi.jp/ht/

Instruction manual is available online:

Refer to a collection of FAQ which compiled frequently asked questions.

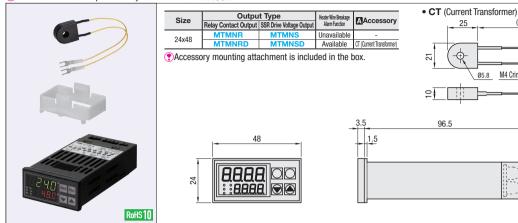
Temperature Adjuster

Instruction manual is available online: http://fa.misumi.jp/ht/ Refer to a collection of FAQ which compiled frequently asked questions.

Ordering Part Number

Example





Size	Output Type	Part Number	Heater Wire Breakage Alarm Function	Unit Price 1 ~ 10 pc(s).
24x48	Relay Contact Output	MTMNR MTMNRD	- Available	
	SSR Drive Voltage Output	MTMNS MTMNSD	- Available	

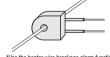


For orders larger than indicated quantity, please check with WOS.

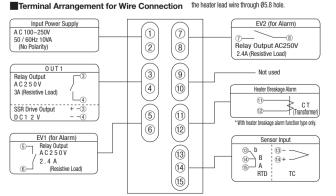
■ Specification Size 24x48mm Part Number MTMNR/MTMNRD MTMNS/MTMNSD O.D. Dimension 24x48x100 **Control Method** ON/OFF control, PID Control with Auto Turning, PID Control with Self-turning hermocouple (K, J, R, T, N, S, B), Temperature Measuring Resistor (Pt100 JPt100) Input **Control Output** SSR Drive Voltage Output (OUT1) Contact Capacity AC250V 3A Resistance Load) (DC12V Max. 20mA) Alarm Output (EV1) Relay Contact Output (AC250V 2.4A Resistance Load) 1a Contact Point Control / Alarm Output2 Relay Contact Output (AC250V 2.4A Resistance Load) (OUT2/EV2) 1a Contact Point Sampling Frequency 500mS **Indication Accuracy** The bigger one of $\pm 0.3\%$ of specified value +1 digit or $\pm 2^{\circ}$ C (Thermocouple) :3°C for -100 ~ 0°C, ±4°Č for -200 ~ -100°C, no regulation for 400°C or less of B Thermocouple The bigger one of $\pm 0.3\%$ of specified value +1 digit or ± 0.9 °C Indication Accuracy (Temperature Measuring Resists Indication Accuracy Maintenance Temperature Range Ambient Temperature: 23±10°C EEPROM Storage Element **Power Supply Voltage** AC 100~240V (Allowable Voltage Change Range 85 ~ 264V) **Power Consumption** 10VA (max.) Mass 180g or Less

* For relay contact of OUT1 EV1 - OUT2 EV2, the mechanical life is 5 million times or more, and the electrical life is 100 thousand times or more.





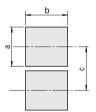
*Use the heater wire breakage alarm function included CT (Current Transformer) by threading the heater lead wire through Ø5.8 hole.



Sensor Input Types and Sensor Range

	Sensor	Lower to Upper Limit	Setting the decimal point
	${\sf KThermocouple}$		
0 /	J Thermocouple	-200~ 850	-199.9~850.0
	R Thermocouple		
03	T Thermocouple	-200~ 400	-199.9~390.0
ŪΥ	N Thermocouple	-200~ 1300	-199.9~990.0
05	S Thermocouple	0~ 1700	
05	B Thermocouple	0~ 1800	
10	Pt100Ω	-199~ 500	-199.9~500.0
1.1	JPt100Ω	-199~ 500	-199.9~500.0

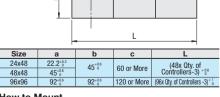
Single Installation



(150)

Ø5.8 M4 Crimp Terminal,

Solid Installation

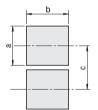


How to Mount Size: 24x48, 48x48

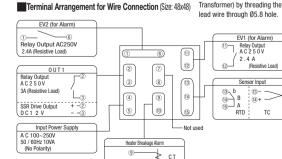
Mounting Attachment



Panel Cut Dimension

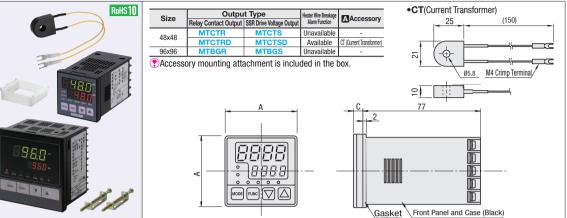


*To install, insert the body and gasket into the square hole of the panel, and insert the mounting attachment from the rear side until clearance is eliminated



* With Heater Breakage Alarm Function Type Only.

PBe sure to refer to Temperature Adjuster Overview on P.1667.



Size	Output Type	Part Number	Heater Wire Breakage Alarm Function	Α	С	Unit Price 1 ~ 10 pc(s).
48x48	Relay Contact Output	MTCTR	-	48	6	
		MTCTRD	Available			
	SSR Drive Voltage Output	MTCTS	-			
		MTCTSD	Available			
96x96	Relay Contact Output	MTBGR	-	96	9	
	SSR Drive Voltage Output	MTBGS	-			

For orders larger than indicated quantity, please check with WOS

■ Specification					
Size	48x48mm		96x96mm		
Part Number	MTCTR / MTCTRD	MTCTS / MTCTSD	MTBGR	MTBGS	
O.D. Dimension	48x48x83		96x96x86		
Control Method	ON/OFF control, PID Control with Auto Turning, PID Control with Self-turning				
Input	Thermocouple (K, J, R, T, N, S, B), Temperature Measuring Resistor (Pt100 JPt100)				
Control Output (OUT1)	Relay Contact Output (Contact Capacity AC250V 3A Resistance Load)	SSR Drive Voltage Output (DC12V Max. 20mA)	Relay Contact Output (Contact Capacity AC250V 3A Resistance Load)	SSR Drive Voltage Output (DC12V Max. 20mA)	
Alarm Output (EV1)	Relay Contact Output (AC250V 2.4A Resistance Load) 1a Contact Point				
Control / Alarm Output2 (OUT2/EV2)	Relay Contact Output (AC250V 2.4A Resistance Load) 1a Contact Point				
Sampling Frequency	500mS				
Indication Accuracy (Thermocouple)	The bigger one of $\pm 0.3\%$ of specified value $+1$ digit or $\pm 2^{\circ}$ C $\pm 3^{\circ}$ C for $-100 \sim 0^{\circ}$ C, $\pm 4^{\circ}$ C for $-200 \sim -100^{\circ}$ C, no regulation for 400° C or less of B Thermocouple				
Indication Accuracy (Temperature Measuring Resistor)	The bigger one of $\pm 0.3\%$ of specified value $+1$ digit or $\pm 0.9^{\circ}$ C				
Indication Accuracy Maintenance Temperature Range	Ambient Temperature: 23±10°C				
Storage Element	EEPROM				
Power Supply Voltage	AC 100~240V (Allowable Voltage Change Range 85 ~ 264V)				
Power Consumption	10VA (max.)				
Mass	180g or Less 380g or Less				
* For relay contact of OUT1 EV1 - OUT2 EV2 the mechanical life is 5 million times or more, and the electrical life is 100 thousand times or more					

For relay contact of OUT1 EV1 - OUT2 EV2, the mechanical life is 5 million times or more, and the electrical life is 100 thousand times or more. * Refer to P.1669 for sensor input type and sensor range.

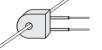
tion Type only.) Setting Range AC1~30A **CT Input** Precision 5% (Set Resolution 1A)

eakage Detection ON Time of OUT1: 300mS or More

Welding Detection ON Time of OUT1: 300mS or More

(Current

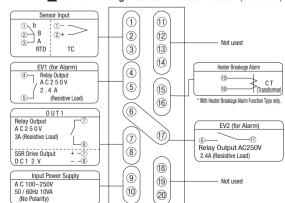
Transformer)



*Use the heater wire breakage alarm function included CT (Current Transformer) by threading the heater

refer to P.1669. Terminal Arrangement for Wire Connection (Size: 96x96)

For panel cut dimensions and how to mount,



2 -1669