THERMO ELECTRIC PEUTIER CONTROUER

Model T1:30

◆ Features ◆

Downsizing High Precision Peltier Controller

Temperature Control ◆ ±1 °C

External Dimension W 100 × D 65 × H 35 mm

(Except for the protrusions)

High Cost Performance by Simple Basic Function

Input Volt ◆ 8 V ~ 12 V

Output Current • 5 A max.

Temp. Control Range ◆ -20 °C ~ +110 °C

Simple Method of Handling

The method of Temperature and parameters are very simple and easy.

PC Communication function loaded

Temperature setting and supervision are possible from PC by communication function.

Please consult for needs of a substrate.



Specifications

Temperature Range	$-20 ^{\circ}\text{C} \sim +110 ^{\circ}\text{C}$			
Temperature Setting	Possible in increments of 1 °C			
Temperature Indication	Possible in increments of 1 °C			
Indicator, Function	Red LED in heating, Green LED in cooling			
Control Method	PI control			
P Range	0.1 to 99.9 °C			
I Range	1 to 1999 sec.			
Peltier Drive Method	PWM drive			
Temp. Sensor	Thermistor			
Safety Function	At braking a sensor, the power is off.			
Input / Output Connector	2P connector for Power Supplies, 4P connector for Peltier, FAN			
	2P connector for thermistor, 3P terminal for RS-232C			
Recommended Sensor	thermistor : 10 k Ω at 25 °C tolerance: \pm 1 %, B constant: 3435 K \pm 1 %			
	(Temperature precision depends on sensor precision. If you use a sensor other than			
	the above standard, Accurate display and control are impossible.)			
Power Supplies	Supplied from outside (DC 8 V ~ 12 V)			
Electric Current	ric Current DC12 V 0.05 A (Controller Unit)			
Peltier Drive Capability	DC12 V 5 A (at Maximum)			
Communication	RS-232C			
Working Environment	Inside area			
Working Temp. Range	+10 °C ~ +40 °C			
Working Humidity Range	85 % max. (No evidence of dew)			
	or / o main (1 to e / memor of ac //)			
Outer Dimensions	W 100 \times D 65 \times H 35 mm (Except projection)			

^{*} Specifications of products are subject to change without notice.

Thermoelectric Peltier Controller Model TA-30



Connect Diagram

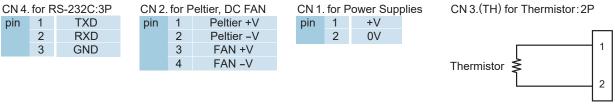


- Caution 1) Please use DC 8 V ~ 12 V power supply. Power supply is supplied to this unit, Peltier, DC fan. Please use power supply and electric wire with sufficient power capacity. If you add a voltage outside the specified range, it will be damaged.
 - 2) Please use the same power supply for Peltier element and DC fan.

Matching Connector Housing and Contact

For RS-232C	H3P-SHF-AA	JST Mfg.Co.,Ltd.	For Peltier,FAN	VHR-4N	JST Mfg.Co.,Ltd.
For Thermistor	H2P-SHF-AA	JST Mfg.Co.,Ltd.	For Power Supplies	VHR-2N	JST Mfg.Co.,Ltd.
(Matching Contact	SHF-001T-0.8BS	JST Mfg.Co.,Ltd.)	(Matching Contact	SVH-21T-P1.1	JST Mfg.Co.,Ltd.)

External connection connector and pin assign



(Please refer to the recommended sensor in the specification column for recommended Thermistor.)

Connection between CN 4 and RS-232C (Please use a cross cable for the RS-232C cable.) Connect the VPE-20 and PC with the following cables.

