

# HT-7 series Temperature controller



## Instruction Manual

### Introduction

Thank you for purchasing this TAISUO product. Read this instruction manual and thoroughly familiarize yourself with the functions and characteristics of the product before using it. Keep this instruction manual for future reference.

### CAUTION

Do not touch terminals while power is being supplied. Doing so occasionally result in minor injury due to electric shock.

Perform correct setting of the product according to the application. Failure to do so is may occasionally cause unexpected operation, resulting in minor or moderate injury or damage to equipment.

Ensure safety in the event of product failure by taking safety measures, such as installing separate overheating alarm system. Product failure may prevent control operations of alarm output, resulting in damage to the connected facilities and equipments.

Do not allow pieces of metal, wire clippings, or fine metallic shavings or filings from installation to enter the product. Doing so may result in electric shock, fire, or malfunction.

Do not use the product in locations where flammable or explosive gases are present. Doing so may result in minor or moderate explosion, causing minor or moderate injury, or property damage.

Do not attempt to disassemble, repair, or modify the product. Doing so may occasionally result in minor or moderate injury due to electric shock.

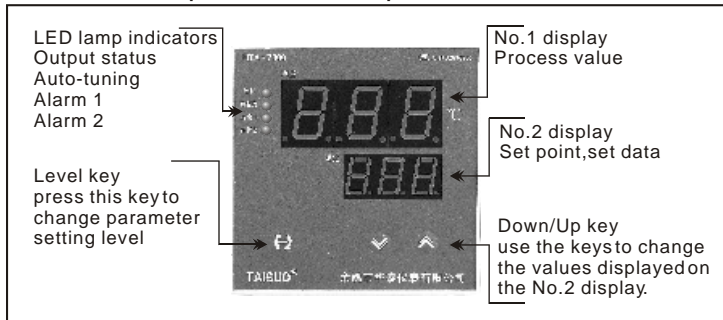
### Specifications

Power supply voltage	220V AC type (110V AC type)
Operating frequency	50-60Hz
Power consumption	3VA
Sensor input	Thermocouple RTD
Measuring accuracy	±0.5% F.S. Or ±1 digit max.
Cold junction	±2℃
Sampling cycle	2 times/sec
Control output	Relay output (250VAC 3A, resistive load) Current output (DC0/4-20mA, load 500Ω max) Voltage output (DC0/1-5V, load 10KΩ min) 12Vcc logic output
Control method	ON/OFF or advanced PID
Ambient temperature	0-50℃ (avoid freezing or condensation)
Ambient humidity	35%-85%RH
Recommended fuse	T2A, 250VAC, time-lag, low-breaking capacity
Weight	Approx. 300g
Available sizes	48×48mm; 48×96mm; 72×72mm; 96×48mm; 96×96mm; 160×80mm; 80×160mm

### Input type

Input type	Input	Setting range
Thermocouple	E	0~600℃
	K	0~999℃
	J	0~800℃
RTD	Cu50	0~150℃
	Pt100	0~600℃

### Names of parts on front panel



### Operation levels

Parameter LCK setting	When LCK=000, all parameters can be set When LCK=001, only Level 1 parameters can be set When LCK=002, all parameters can not be set except LCK
<b>Set point setting mode Level 1</b>	
Press $\nabla$ and $\blacktriangle$ directly to set the set point on the No.2 display.	

### Parameters setting mode

Press  $\leftrightarrow$  3 seconds to enter Level 2  
Press  $\leftrightarrow$ ,  $\nabla$  and  $\blacktriangle$  3 seconds to enter Level 3

Level 2	Level 3
<p>PV <b>RL1</b> SV <b>010</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>RL2</b> SV <b>010</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>AT</b> SV <b>000</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>P</b> SV <b>020</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>I</b> SV <b>300</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>d</b> SV <b>030</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>T</b> SV <b>020</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>HY</b> SV <b>010</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>Sc</b> SV <b>000</b></p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>LcL</b> SV <b>000</b></p>	<p>PV <b>SL0</b> SV <b>000</b> Not available</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL1</b> SV <b>000</b> Decimal point</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL2</b> SV <b>000</b> Measurement lower limit point</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL3</b> SV <b>400</b> Measurement upper limit point</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL4</b> SV <b>003</b> Alarm 1 mode Deviation high alarm</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL5</b> SV <b>000</b> Alarm 2 mode</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL6</b> SV <b>000</b> Not available</p> <p>Press <math>\leftrightarrow</math></p> <p>PV <b>SL7</b> SV <b>000</b> Control method 000:PID control 002:ON/OFF control</p>

#### Note:

- Maybe some parameters will not display in the menu, cause there is no this feature in your ordered controllers.
- We never recommend common users to change the parameters in Level 2 and Level 3 by themselves.

### Contact

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