

XMT□-6 □□□ 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.

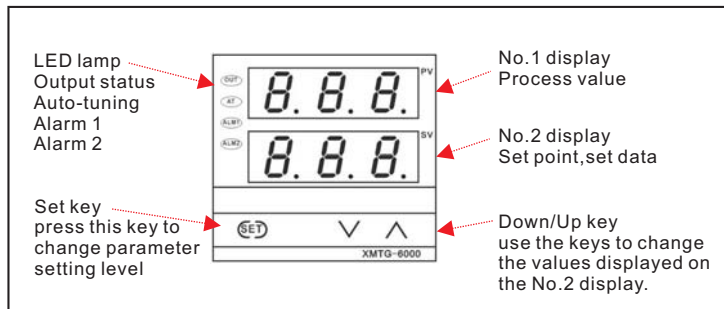
Specifications

Power supply voltage	110~220VAC
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

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
Set point setting mode Level 1	
Press and directly to set the set point on the No.2 display.	

Parameters setting mode

Press SET key 3 seconds to enter Level 2

Press SET, and 3 seconds to enter Level 3

Level 2

PV SV

Alarm 1 value
usually it is upper limit
alarm value

Press SET

PV SV

Alarm 2 value
usually it is lower limit
alarm value
this parameter do not show
if controller do not have
alarm 2

Press SET

PV SV

Auto-tuning
AT=000, auto-tuning is off
AT=001, auto-tuning is on

Press SET

PV SV

Proportional band
range:
1(0.1) to span or 99.9(99.9)℃
when P=0, ON/OFF control

Press SET

PV SV

Integral time
range:
0~3600 seconds

Press SET

PV SV

Differential time
range:
0~3600 seconds

Press SET

PV SV

Proportional cycle
range:
1~100 seconds

Press SET

PV SV

Control dead band
when the control method is
ON/OFF, then this parameter
will display on the menu

Press SET

PV SV

Cold compensation
modify the error of sensor

Press SET

PV SV

Lock
restrict some settings

Level 3

PV SV

Not available

Press SET

PV SV

Decimal point

Press SET

PV SV

Measurement lower
limit point

Press SET

PV SV

Measurement upper
limit point

Press SET

PV SV

Alarm 1 mode
Deviation high alarm

Press SET

PV SV

Alarm 2 mode

Press SET

PV SV

Dead band of
Alarm 1

Press SET

PV SV

Control method
000:PID reverse
001:PID direct
002:ON/OFF control

Press SET

PV SV

Percentage of
Auto tuning
default setting is
100%

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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