



Features:

- Dual display, 4 digits, 7 segments LED display
- Thermocouple input(K, E, J, T, S, R, B, N, Wu3_Re25, PT100, Analog)
- PID, PID Autotune, ON-OFF Control Mode
- **Built-in Timer+Temperature Controller**
- Various timer triggering mode
- Timer can be triggered right after power on
- Timer can be triggered when PV reach to SV
- Relay output for timer can be set as on delay or off delay
- LED indicators available to indicate the status of the program
- User can check how much time elapsed
- Program can be aborted during the process
- Memory retention function
- °C/°F display selectable
- 0.3%F.S measuring accuracy
- Bar graphic display indication
- Optional features
 - RS485 Modbus RTU Communication
 - 24VDC/AC source available

Technical Specifications

Ordering Information

FT100-610(48mm*48mm)(Width*Height)	
FT400-610(48mm*96mm)(Width*Height)	1 2 3 4 5 6 7 8
FT700-610(72mm*72mm)(Width*Height)	
FT900-610(96mm*96mm)(Width*Height)	

1:Input

Blank	No code in this position means standard model, TC/RTD input
A	4-20mA, 0-10Vdc.

2:Output for temperature control(OP1)

R	Relay output
V	SSR Drive output
D	4-20mA output
E	0-10Vdc

3:Alarm for temperature control(AL1)

1	1 alarm(relay output)
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4:Output for timer(AL2)

1	1 alarm(relay output)
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5:Power Source

96	85~265Vac 50/60HZ
24	24Vdc/ac

6:Communication

N	Without Communication
K	With Modbus RTU RS-485 communication

7:PV Re-transmission

N	Without PV re-transmission function
P42	PV re-transmitted as 4-20mA
P010	PV re-transmitted as 0-10Vdc

8:Auxiliary power supply

N	Without auxiliary power supply
A	24Vdc isolated
B	24Vdc grounded
C	12Vdc isolated
D	12Vdc grounded
E	9Vdc isolated
F	9Vdc grounded

eg:FT100-610-R-1-1-96-N-N-N

- 1.This item is combo temperature + time 2 in 1 controller
- 2.Standard model with 1 alarm for temperature control, and 1 output for program execution
3. This model supports TC/RTD input as a standard version, standard model is TC/RTD input and leave the position 1 blank without any code. if you need 0-10VDC, 4-20mA input, choose the code "B"

General Specifications

Electrical Specifications

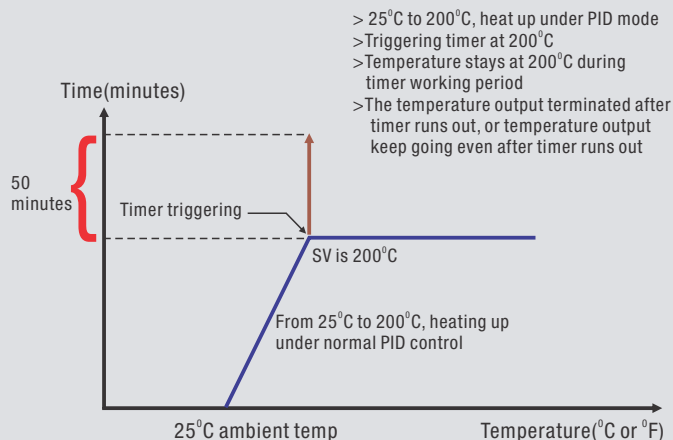
Display	Upper for temperature, lower for temp/time
Input	TC/RTD/Analog
Output for temperature	Relay/SSR Drive/4-20mA
Output for timer	Relay
Temp control mode	PID on/off mode
Timer triggering mode	Automatic triggering
Timer output reset mode	Manually reset from panel
Timer counting mode	Counting up
Timer setting range	1~9999 minutes
Timer unit	Minute
Timer relay output mode	Relay pull-in when timer kicks off or timer terminate
Power source	85~265Vac or 24VDC/AC
Measuring accuracy	0.3% F.S
Display unit	°C or °F display selectable
Communication	Modbus RS-485 RTU optional

Mechanical Enviromental Specifications

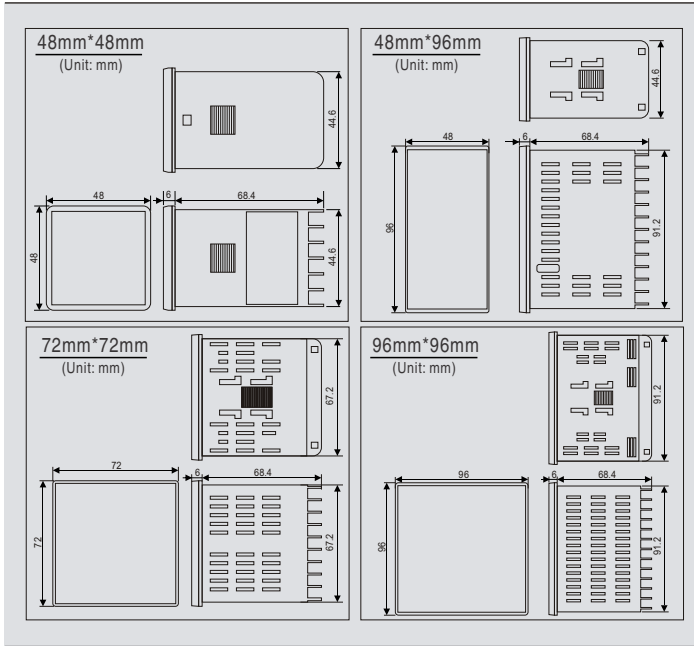
Size	48mm*48mm, 48mm*96mm, 72mm*72mm, 96mm*96mm
Weight	0.17kg/ 0.27kg/0.27kg/0.35kg
Operating temperature humidity	-10°C~+50°C 45%~85% RH

Explanation on the working pattern of this controller

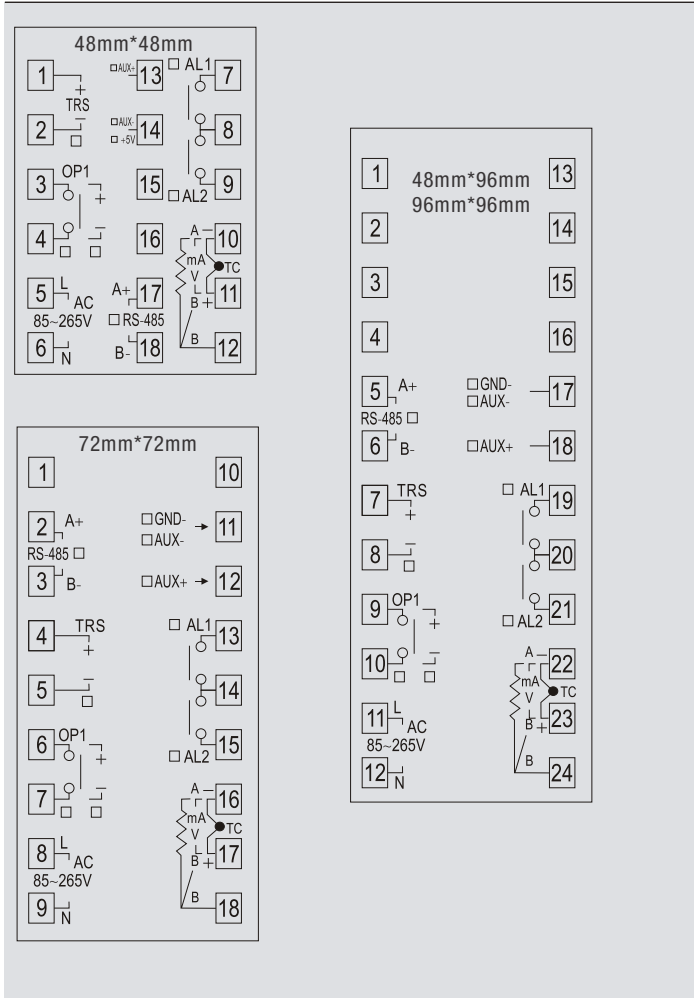
The timer will be triggered automatically when temperature reach to a preset value, for example, in an application where the temperature starts from the ambient temp at 25°C, you put the setting value at 200°C, the timer can be triggered automatically at any point from 0°C to 200°C. and the timer starts to tick at a preset period of time from 0-9999 minutes.



Dimension and cutout sizes



Wiring diagram



Typical procedure

