Operation Manual

Timer

TH5C

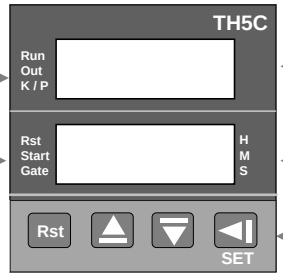
MAXTECH®

http://www.maxthermo.com

1 Panel Function

LED

Run：flickering when counting
Out：lighting when output “on”
K/P： lighting when key locked
Reset：lighting when reset operation
Start：lighting when starting
Gate：lighting when stopping
H：lighting when hour selected
M： lighting when minute selected
S： lighting when second selected



Upper display (PV)

Displaying counting value or parameter

Below display (SV)

Displaying setting value or parameter

Shift key

Moving digit or switching display (pushing it for 3 sec to enter set mode)

Decreasing key

Increasing key

Rst Reset key

Use for resetting or entering SV

2 Set Time Method

Setting time can be changed during counting or stop counting.
Pushing 1 sec for LED flickering then push or to increase or decrease the set time.

9.999 ↔ 9.999 ↔ 9.999 ↔ 9.999

Pushing to move digit position, it is cycle .
It must push Rst key to enter the SV after setting.

3 Parameter Flow Chart & Function

Setting value can be changed during counting or stop counting
Pushing key for 3 sec then use & key to select the mode.

Push 3 sec

Returning to initial display after 20 sec no operation.

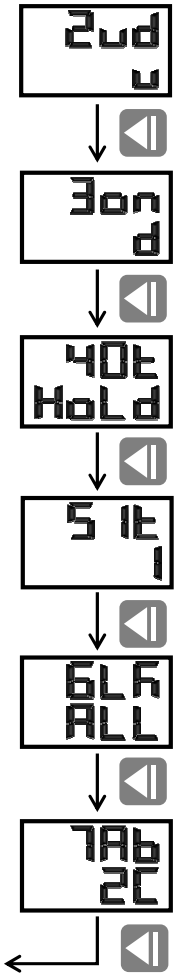
Time range selection			
9.999	9.999sec	9999	9999min
99.99	99.99sec	9999	999.9hr
999.9	999.9sec	9999	9999hr
9999	9999sec	99:59	99min59sec
9999	999.9min	99:59	99hr59min

Time ranges

1 Use setting time range.

9999s ↔ 9999s ↔ ····· ↔ 99:59M:S ↔ 99:59H:M

Select time range



Up / Down counting

2 Use setting up / down counting.

u Up ↔ d Down

Output mode

3 Use setting output mode.

A ↔ A1 ↔ A2 ↔ A3 ↔ b ↔ b1 ↔ b2 ↔ C ↔ d ↔ E ↔ F

Select time operation
* Refer to output mode diagram. TH5C without A1, A2, A3, B1, B2, C, D, F

Output time

4 Use setting time range.

Hold ↔ 0.1S ↔ 0.5S ↔ 1S ↔ 5S ↔ 10S ↔ 15S ↔ 20S

* Output mode C, D, E, F without this function

Input time

5 Use setting time range.

1ms ↔ 20ms

* 1ms=1/1000sec * TH5C-8 without this function

Key lock mode

6 Use setting lock mode.

ALL ↔ UNLOCK ↔ RESET ↔ ADJ ↔ SET

* Push + for 3 sec to perform lock or release lock

Output contactor

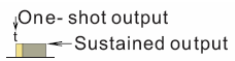
7 Use setting the output contactor.

2C ↔ 1A1C

* TH5C-8S and TH5C-11S without this function

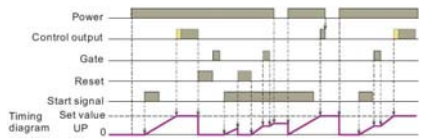
Return 1tE (time range)

4 Timing Charts



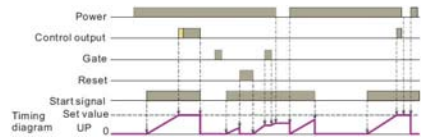
Either one-shot output or sustained output can be selected

Mode A :
Signal ON Delay
(Timer resets when power comes on)



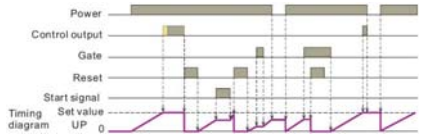
Timing starts when the start signal goes ON. While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.
The control output is controlled using a sustained or one-shot time period.

Mode A1 :
Signal ON Delay2
(Timer resets when power comes on or when START signal goes off)



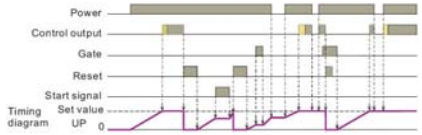
Timing starts when the start signal goes ON. and is reset when the start signal goes OFF While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.
The control output is controlled using a sustained or one-shot time period.

Mode A2 :
Power ON Delay
(Timer resets when power comes on)



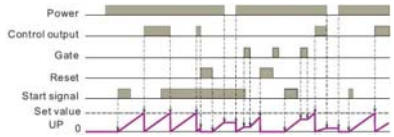
Timing starts when the start signal goes ON.
The control output is controlled using a sustained or one-shot time period.
The start signal disables the timing function (i.e.,same function as the gate input)

Mode A3 :
Signal ON Delay
(Timer doe not resets when power comes on)



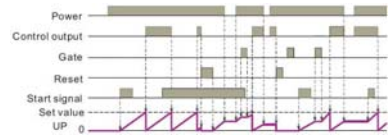
Timing starts when the start signal goes ON.
The start signal disables the timing function (i.e.,same function as the gate input)
The control output is controlled using a sustained or one-shot time period.

Mode B :
Repeat Cycle 1
(Timer resets when power comes on)
Output can be sustained or one-shot.



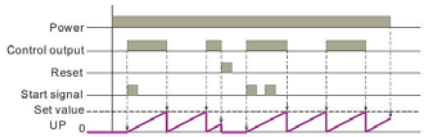
Timing starts when the start signal goes ON.
The status of the control output is reversed when time is up (OFF at start)
While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.

Mode B1:
Repeat Cycle 2
(Timer does not reset when power comes on)
Output can be sustained or one-shot.



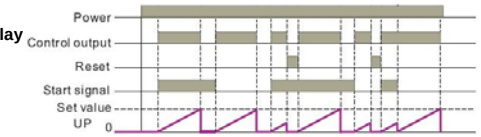
Timing starts when the start signal goes ON.
The status of the control output is reversed when time is up (OFF at start)
While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.

Mode B2:
Repeat Cycle ON start
(Timer does not reset when power comes on)
Output can be sustained or one-shot.



Timing starts when the start signal goes ON.
The status of the control output is reversed when time is up (OFF at start)
While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.

Mode C:
Signal ON/OFF delay
(Timer reset when power comes on)

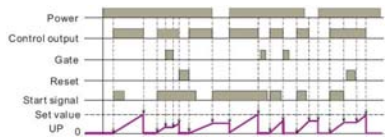


Timing starts when the start signal goes ON or OFF.
The status of the control output is ON when the start signal goes ON or OFF.

Mode D:
Signal OFF delay
(Timer resets when power comes on)

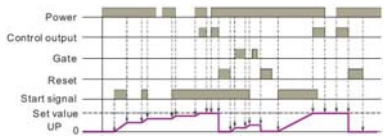
The control output is ON when the start signal is ON (except when the power is OFF or the reset is ON).

Mode E:
Interval
(Timer resets when power comes on)



Timing starts when the start signal comes ON.
The control output is reset when time is up.
While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.

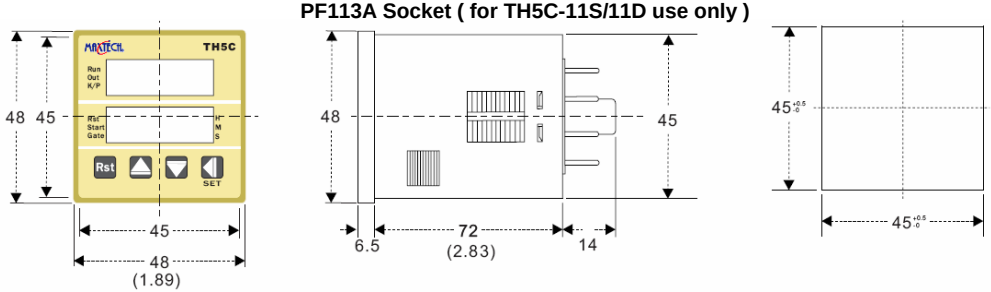
Mode F:
Cumulative
(Timer does not reset when power comes ON.)



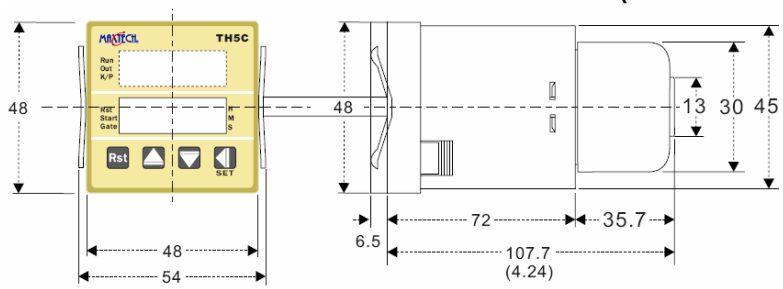
Start signal enables timing (timing is stopped when the start signal is OFF or when the power is OFF)
A sustained control output is used.

5 Dimensions

Unit：mm (inch)
N type (Surface Mounting)：Using P2CF-08,PF085A Socket or PF113A Socket (for TH5C-11S/11D use only)

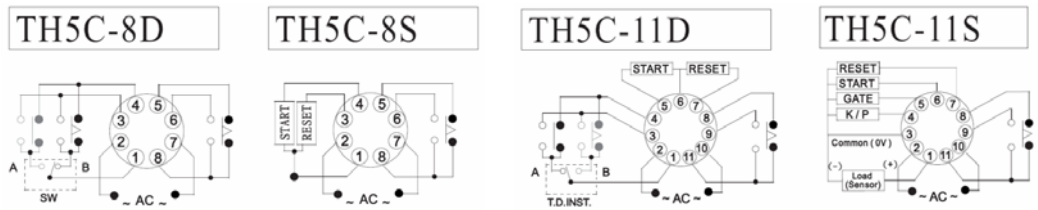


Y type (Flush Mounting)：Using Y48 Frame &US-08Socket P3G-08 Socket or P3G-11 Socket (for TH5C-11S/11D use only)



6 Terminal Arrangement

Confirm that the power supply meets specifications before use.



7 Type Selection

Type	TH5C-8D	TH5C-8S	TH5C-11D	TH5C-11S
Time range	9.999s/99.99s/999.9s/9999s/999.9m/9999m/999.9h/9999h/99m59s/99h59m			
Output contact	2C or 1A1C	1C	2C or 1A1C	1C
Memory		◎	◎	◎
External Reset		◎	◎	◎
External Start		◎	◎	◎
External Gate				◎
Key protect (K/P)				◎