



TECHNICAL SPECIFICATION

Power Supply		100 - 240 VAC 50/60 Hz
		24 VAC/VDC ±15%
Power Consumption		2VA
Display	PV and SV	7 Segment 3 Digit, Size 0.39 Inch=
	Unit of Timer	14 Segment 1 Digit, Size 0.39 Inch
Input	Input Reset	Dry contact
	Input Start	Dry contact
	Timer Resolution	0.01 Sec.
Output	Relay	2 Relay, 5A 250VAC / 5A 30VDC
Communication	PROTOCOL	MODBUS RTU
	Slave Address	1 - 255
	Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600
	Parity	None, Odd, Even
	Stop Bits	1, 2
	Data Bite	8
	Support Device Node	127
Ambient Operation	Temperature	-10 °C to 60 °C
	Humidity	85 % RH Non-Condensing
Ambient Storage	Temperature	-20 °C to 80 °C
	Humidity	85 % RH Non-Condensing
Protection Degree		IP40
Installation		DIN Rail Mounting
Material		ABS-V0
Size (mm.)		48 x 48 x 80
Weight		320 g.

DIMENSION

- PT-03N is Digital Timer.
- Display Number by 7-Segment.
- Able to set the time in mSec, Sec, Min and Hour.
- Able to choose the timer function by 8 Function.
- 2 Output Relay 5A/250VAC able to switch the operation between Output 1 and Output 2.
- LED show the output relay working status.
- Able to choose Input signal in Hold or Toggle form.
- Communicate with computer via port RS-485 MODBUS RTU Protocol

OPERATION

Digital timer can set the timer by 8 Function(see Function Graph). Digital timer can set timer in mSec, Sec, Min and Hour from Keypad. And PT-03N has switch to control Time Start (connect terminal 12 and 14) and the user can set time value by press reset button in the front or connect with external control switch (by connect to terminal 12 and 13)

PT-03N has consist of

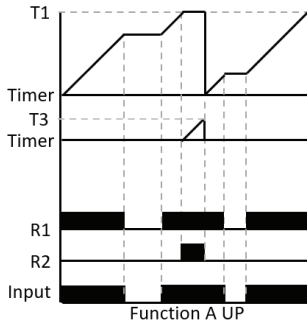
1. Timer T1 and T2 will work follow Function A to H.
2. Timer 3 can work by Auto reset timer for Function A, B, C, D or Pause Timer while switch operation of Timer T1 and T2 w
3. Dry Contact Start Input for command timer to operate with 3 Function
 - a. Input holding1 set variable "1 Pt" = "Ho 1"

when user hold Input supply, Timer T1 T2 will count time follow condition of setting function and when the user stop supply Input. It will make Timer stop counting but the value in Timer will not reset
 - b. Input Holding2 set variable "1 Pt" = "Ho2"

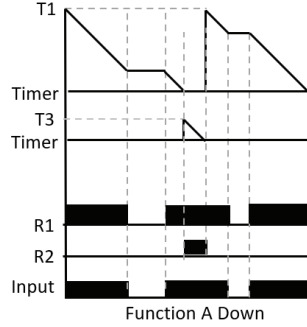
when the user hold Input supply. Timer T1 T2 will count follow function condition and when stop supply Input will make Timer stop counting and value in Timer will reset.
 - c. Input Toggle set variable "1 Pt" = "toG"

when the user supply Input Pulse in form Dry contact(Positive pulse width xxx mS) will make Timer T1, T2, T3 count time follow function condition. And when the user supply Pulse again will make Timer stop but value in Timer will not reset
4. Dry contact Reset Input for command to start count Timer again(Reset Timer)
5. Output Relay R1, R2 will ON/OFF follow setting function.

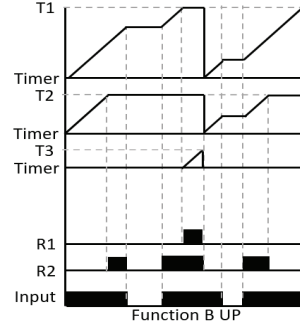
FUNCTION GRAPH



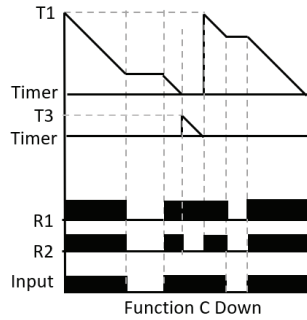
Graph Function A



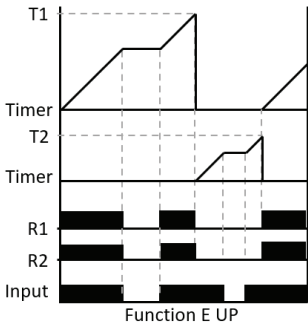
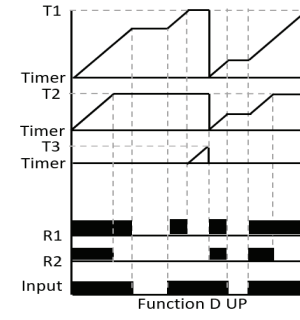
Graph Function B



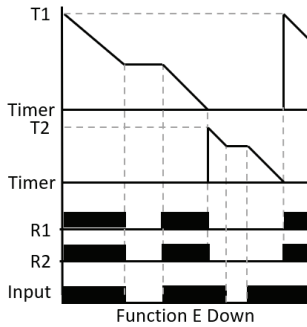
Graph Function C



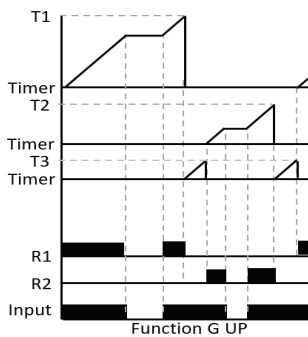
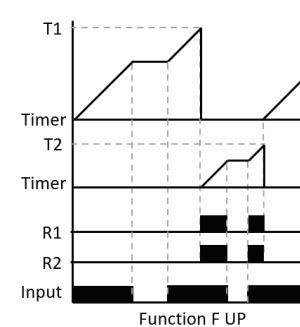
Graph Function D



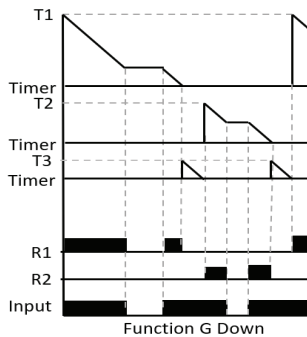
Graph Function E



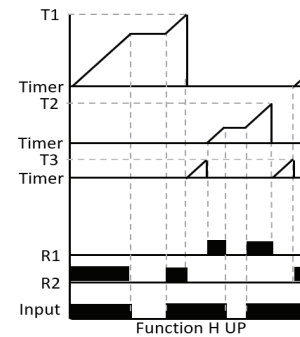
Graph Function F



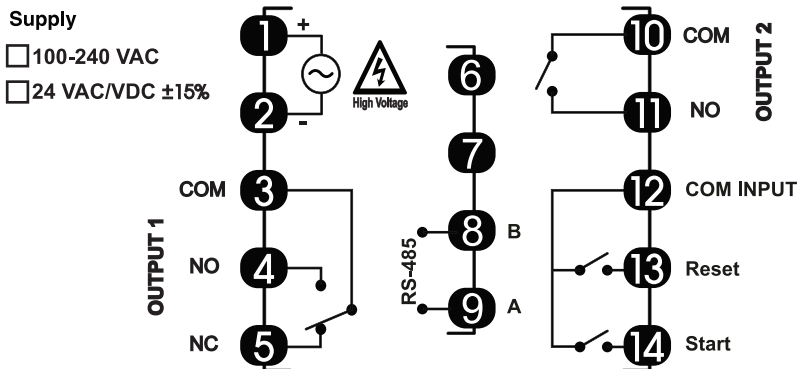
Graph Function G



Graph Function H



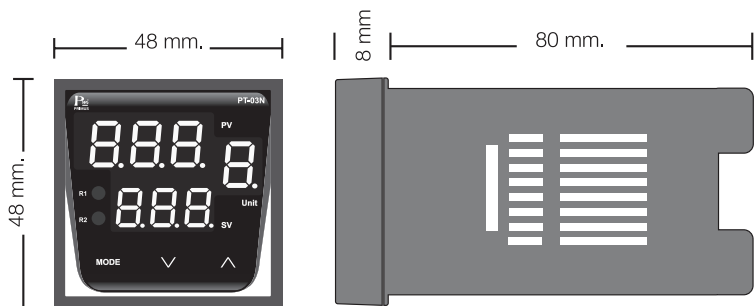
WIRING DIAGRAM



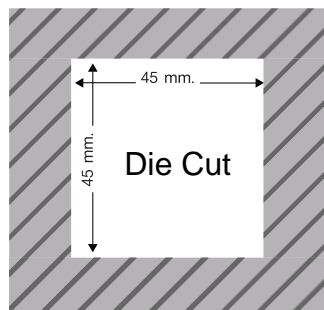
WARNING

- Make sure the correct wiring connection before turning on electricity. Mis-wiring may cause malfunction of the unit and fire.
- Never modify the unit to prevent damage or incident such as malfunction and fire etc.

DIMENSION



CUTTING



ORDERING CODE

PT - 03N - SUPPLY - Option

SUPPLY	
NONE	100-240 VAC
24	24 VAC/VDC ±15%

Option	
M	RS-485