# $\begin{array}{c} \mbox{High-performance digital display timer} \\ T4GT T4DT T4FT \end{array}$



About us

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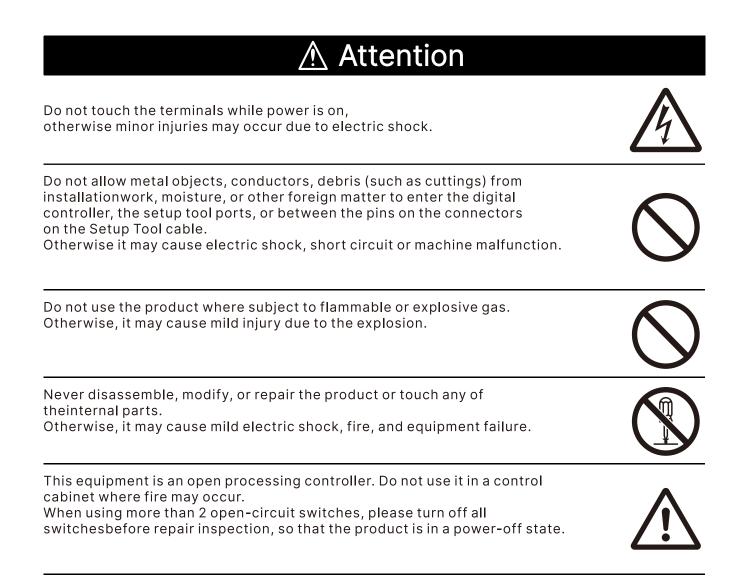
Thank you very much for choosing TMCON products, In order to better use this product, please read the following before using.

### TMCON

#### Technical Manual Version number: EN-V1-03



#### Safety precautions

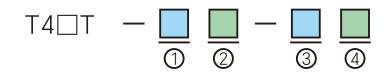


#### Main features

## Display easy to read, powerful, stable performance, friendly docking industrial internet

- Adopting a color LCD display screen, the white font is easy to read from a long distance, and the side.
- Super-thin panel LCD screen with a new trend of industrial aesthetic shape design, more advanced sense.
- Waterproof keys with plastic handle, the surface of the keys is firm and wear-resistant, and the operation feels clear and smooth.
- The built-in waterproof sealing ring and the external installation of waterproof sealing ring can achieve good waterproof performance.
- Ultra-short fuselage with a depth of only 65mm behind the plat.
- Can set any time you want within the time range of 0.001 seconds to 9999 hours.
- Elapsed time (Up) or remaining time (Down) can selectable settings.
- Powerful with multiple output modes, it can meet most application scenarios.
- Supports RS485 communication interface, adopts the internationally recognized MODBUS-RTU communication protocol, and is friendly to the industrial internet.
- Can set the power-off memory function mode, power-off data automatically saved.
- Equipped with key lock function, with multiple key lock options available.
- High performance switching power supply design ensures stable operation of microcomputers.
- Strong anti-interference performance, accurate and reliable timing.

#### Technical reference

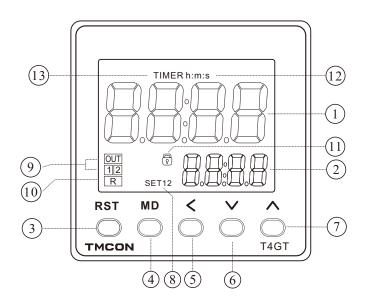


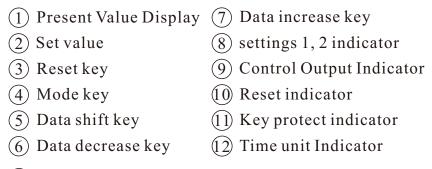
Models	0	2	3	4	Description
	Category	Communication function	Power supply	Control output	
T4GT					48×48mm High performance digital display timer
T4DT					72×72mm High performance digital display timer
T4FT					96×48mm High performance digital display timer
	A1				1-way relay control output
	A2				2-way relay control output
		N			No communication
		S			With RS485 communication port
			N or Not to write		Power Supply 100~240V AC
			D		Power Supply 12~24V AC/DC
				N or Not to write	Relay control output
				Т	Transistor controlled output
				Q	SSR drive voltage output

#### Technical reference

Models	T4□T-A1□-□	T4T-A2		
Functional categories	1-way relay output (standard order)	2-way relay output		
External dimension (mm)	48(high)×48(wide)×65(depth) 72(high)×72(wide)×60(depth) 96(high)×48(wide)×60(depth)			
Hole size (mm)	45(high)×45(wide) 68(high)×68(wide) 92(high)×45(wide)			
Power supply	AC100~240V 50/60Hz or AC/DC12~24V (The model suffix has "-D" is 12~24V, and the model suffix does not have "-D" is 100~240V)			
Permissible voltage range	85~110%			
Power consumption	About 5VA (AC240V), about 3.2 VA (DC24V)			
Display mode	Color LCD display (run value white light, set value green light, indicator light orange light)			
Time Frame	9.999s (0.001s~), 99.99s (0.01s~), 999.9s (0.1s~), 9999s (1s~), 99m59s (1s~), 999.9m (0.1m~), 9999m (1m~), 99h59m (1m~), 999.9h (0.1h~), 9999h (1h~)			
Timing mode	Elapsed time (Up) or remaining time (Down) can selectable settings			
Input signal	Signal, Gate, Reset			
Input method	No-voltage (NPN) input/voltage (PNP) input (switchable) No-voltage inputs: ON impedance: 1KΩ max (Leakage current: 12mA at 0Ω) ON residual voltage: 3V max OFF impedance: 100KΩ min Voltage input: High (logic) level: 4.5 to 30VDC			
Minimum input signal width	1ms/20ms (optional setting)			
Output mode	A, A-1, A-2, A-3 , b, b-1, d, E , F, Z, b			
Output time	HOLD (output remains until manual reset or signal reset)/0.01s~99.99s (output automatic reset time)			
Reset mode	Power reset (except for power outage memory in A-3, b-1, and F modes), external reset, and panel button reset Bit, automatic reset (according to output mode)			
Power outage memory	EEP-ROM Data held for more than 10 years			
Auxiliary power output	12VDC ±10% 100mA Max			
Control output	1-way relay output (standard configuration), Contact capacity: 3A/AC250V resistive load	2-way relay output (standard) , contact capacity: 3A/AC250V resistive load		
	Customizable 1-way transistor output: NPN open collector output	Customizable 2-way transistor output: NPN open collector output		
	Customizable 1-way SSR drive voltage (DC12V 100mA) output	Customizable 1-way SSR drive voltage (DC12V 100mA) output		
Communication function	RS485 communication interface, Modbus-RTU communication protocol (models with S at the end of the model have this function)			
Communication protocol	Modbus RTU communication protocol			
Accuracy error	Less than ± 0.01% ± 0.05S			
Insulation withstand voltage	AC2000V 50/60Hz 1min			
Usage environment	Temperature -10~+55°C (not freezing or exposed), humidity: 25~85% RH			

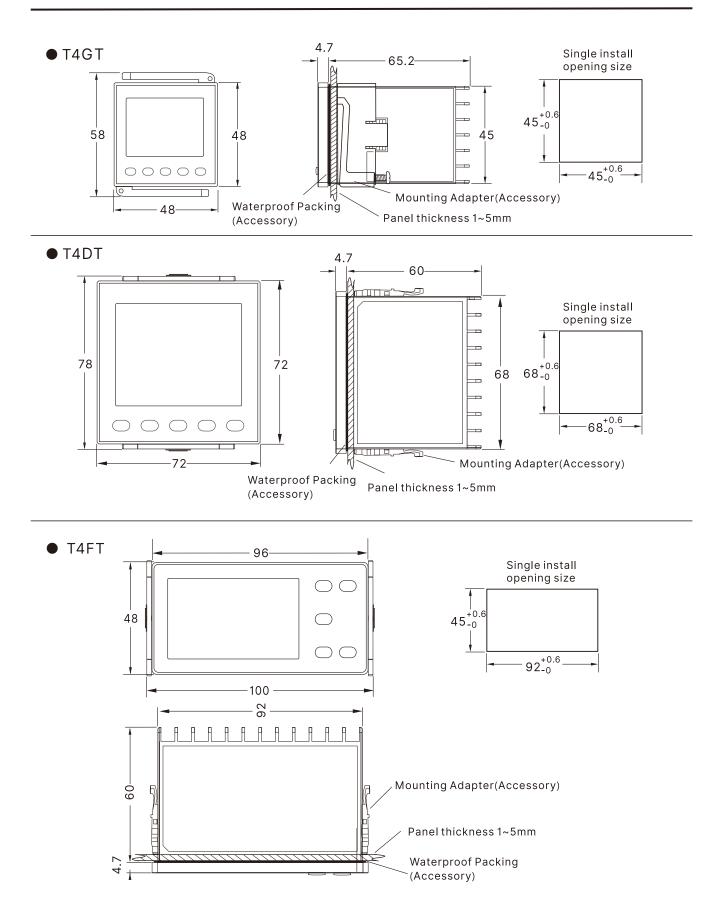
#### Panel description





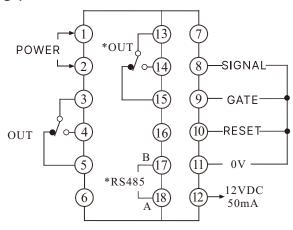
(13) Timer Character/Run Indicator. Character flickers to indicate that the timing is in progress

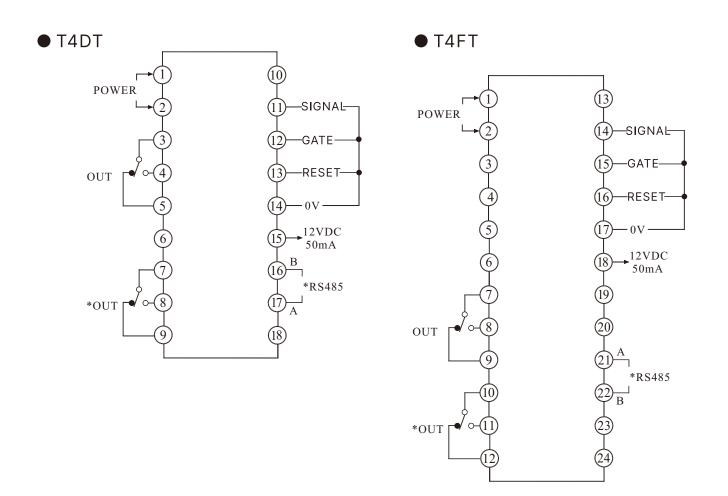
#### Dimensions (mm) and installation instructions



### Wiring diagram

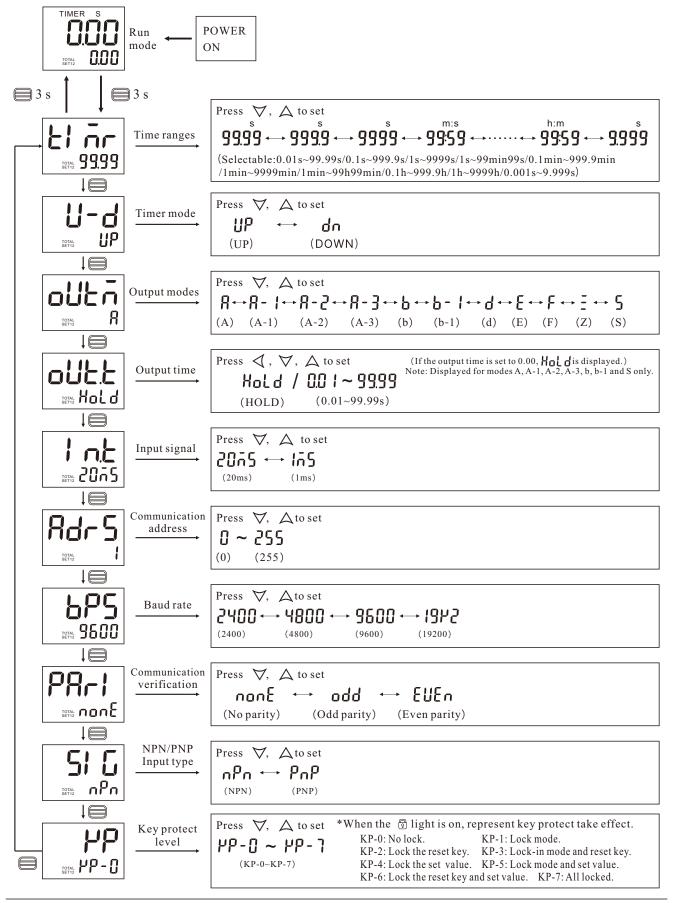
• T4GT





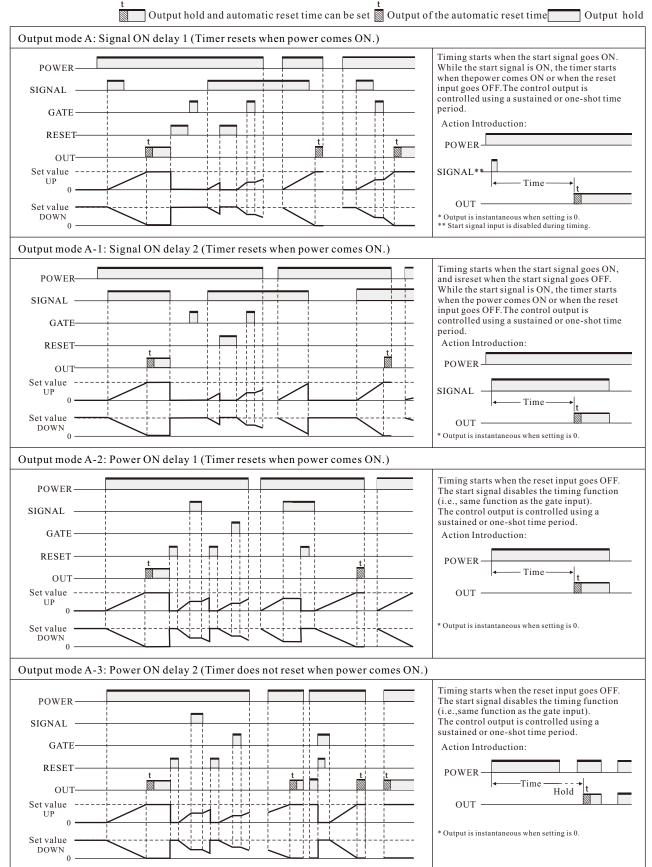
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#### Input Modes and Present Value

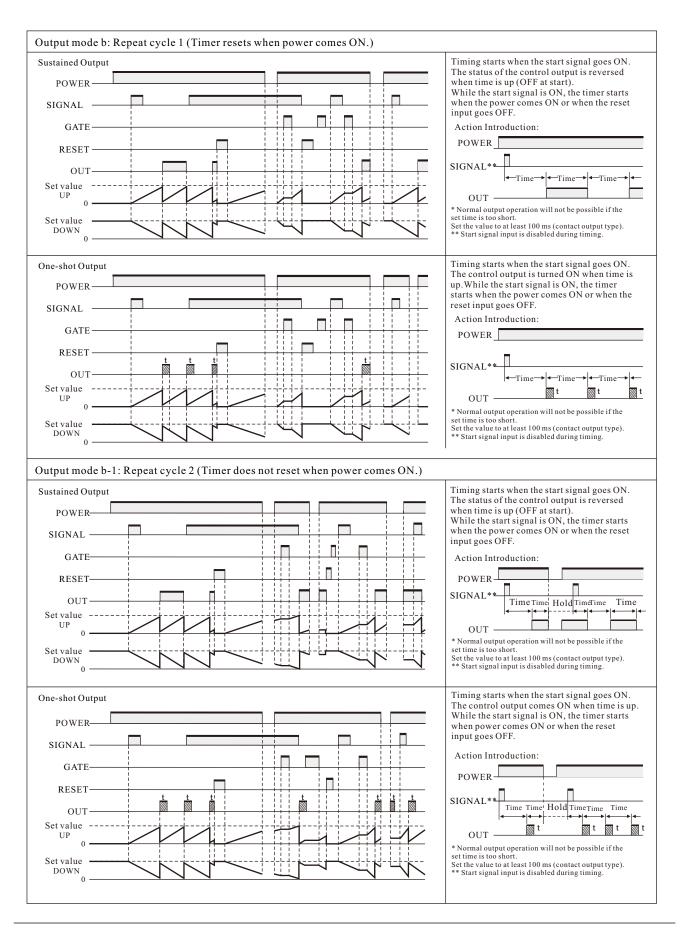


#### ■T4□T Output mode action diagram

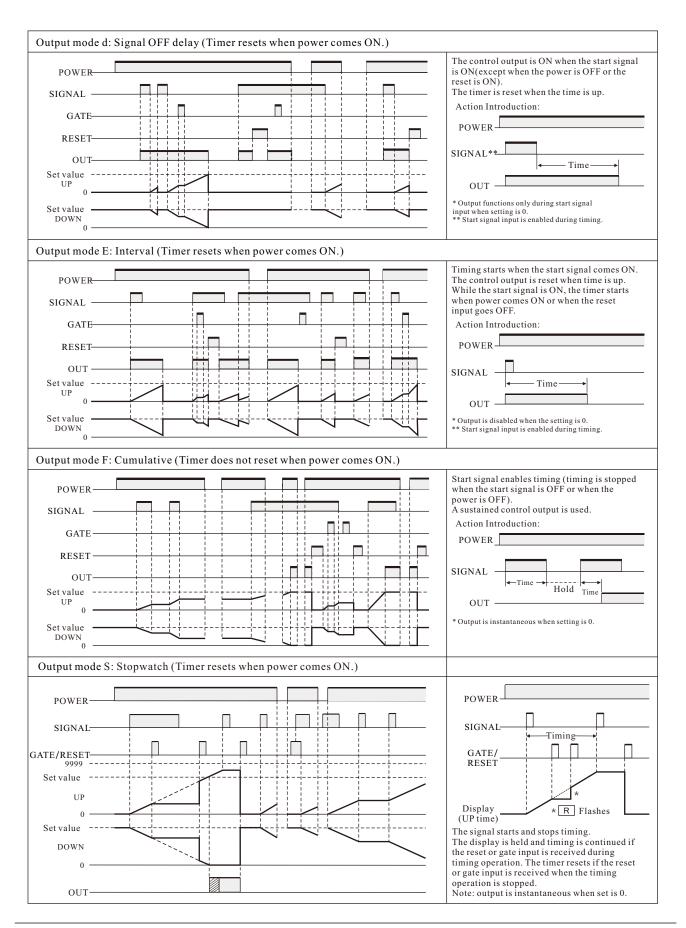
#### Output mode of action Figure



#### ■T4□T Output mode action diagram



#### T4 T Output mode action diagram



#### ■T4□T Output mode action diagram

