

## Small intelligent timer T3T

Technical Manual  
Version number: EN-V1-03



### 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.

## ■ Safety precautions

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### Attention

Do not touch the terminals while power is on, otherwise minor injuries may occur due to electric shock.



Do not allow metal objects, conductors, debris (such as cuttings) from installation work, moisture, or other foreign matter to enter the digital controller, the setup tool ports, or between the pins on the connectors on the Setup Tool cable. Otherwise it may cause electric shock, short circuit or machine malfunction.



Do not use the product where subject to flammable or explosive gas. Otherwise, it may cause mild injury due to the explosion.



Never disassemble, modify, or repair the product or touch any of the internal parts. Otherwise, it may cause mild electric shock, fire, and equipment failure.



This equipment is an open processing controller. Do not use it in a control cabinet where fire may occur. When using more than 2 open-circuit switches, please turn off all switches before repair inspection, so that the product is in a power-off state.



## ■ Main features

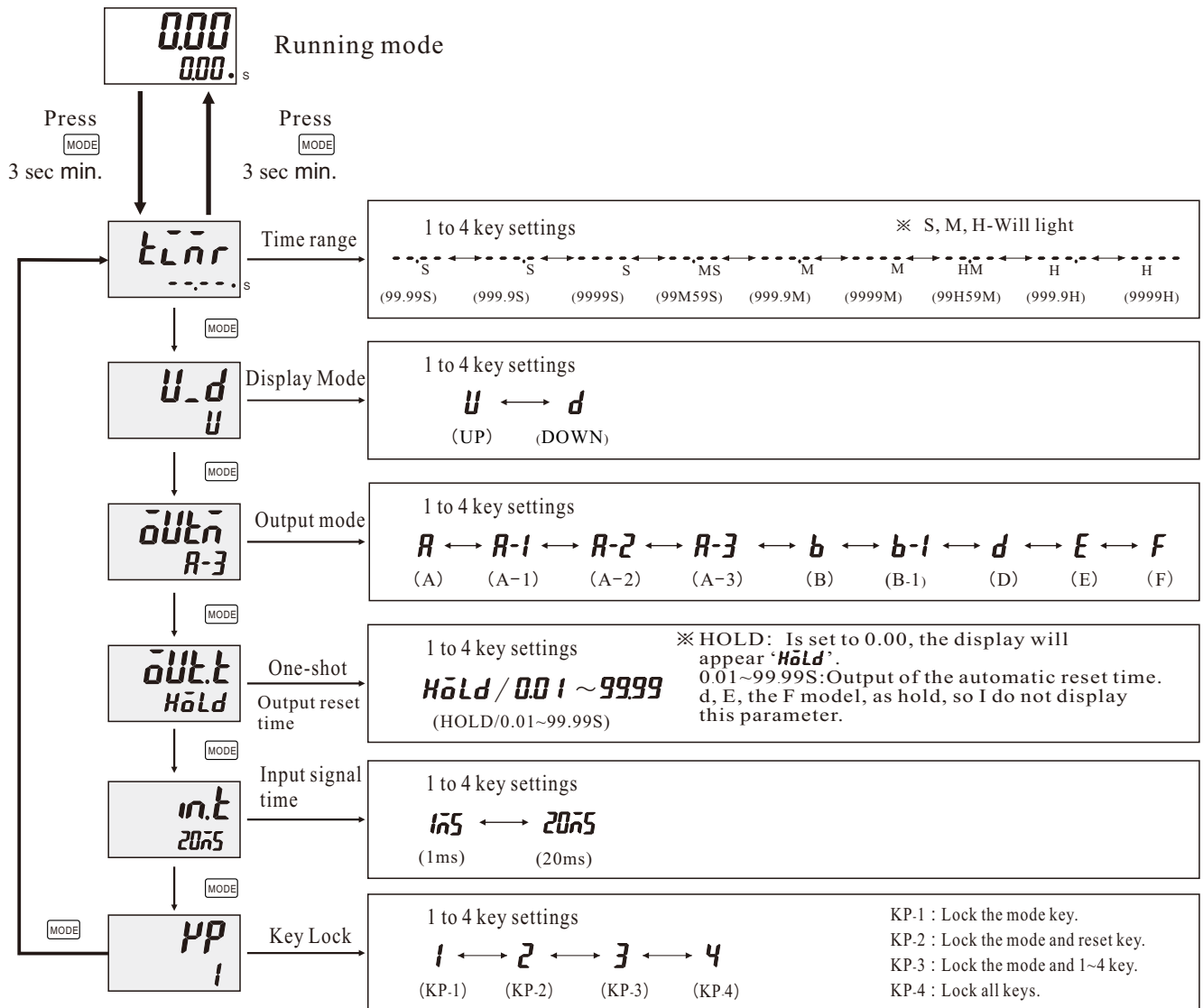
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- DIN 36×72mm standard size, arc-shaped“Sunglasses filter lens” panel display, bright visual experience.
- User-friendly interface design, so that the single-row display mode parameter settings also become easy to operate.
- Can set any time you want within the time range of 0.01 seconds to 9999 hours.
- Elapsed time (Up) or remaining time (Down) can selectable settings.
- Multiple output modes can meet most application scenarios.
- Can set the power-off memory function mode, power-off data automatically saved.
- High performance switching power supply design ensures stable operation of microcomputers.
- Strong anti-interference performance, accurate and reliable timing.

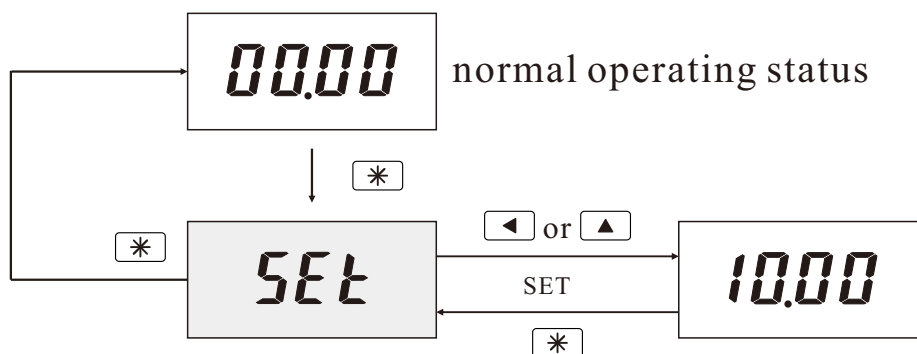
## ■ Technical reference

Models	T3T-B
Functional categories	Small intelligent time relay
External dimension (mm)	36(high)×72(wide)×66(depth)
Hole size (mm)	31(high)×67(wide)
Power supply	AC100~240V 50/60Hz or AC/DC12~24V (The default delivery is 100~240V, If you need 12~24V, please declare the voltage at the time of ordering)
Permissible voltage range	85~110%
Power consumption	About 5VA (AC240V), about 3.2VA (DC24V)
Display mode	LED Nixie tube display
Time Frame	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	NPN no voltage input (Contact signal, NPN sensor signal)(short circuit impedance: Max 1K $\Omega$ , residual voltage: Max 3VDC, open circuit impedance: min 100K $\Omega$ )
Minimum input signal width	1ms/20ms (optional setting)
Output mode	A, A1, A2, A3, b, b1, d, E, F
Output time	HOLD (output remains until manual reset or signal reset)/0.01s~99.99s (output automatic reset time)
Reset mode	Panel key reset, external signal reset Power reset (only A, A1, A2, b, d, E output modes) Automatic reset (only A1, b, b1, d, E output modes)
Power outage memory	EEP-ROM Data held for more than 10 years
Auxiliary power output	12VDC $\pm$ 10% 100mA Max
Control output	Relay output, contact capacity: 3A/AC250V resistive load
Accuracy error	Less than $\pm$ 0.01% $\pm$ 0.05S
Insulation withstand voltage	AC2000V 50/60Hz 1min
Usage environment	Temperature -10~+60°C (not freezing or exposed), humidity: 25~85% RH

# Input Modes and Present Value

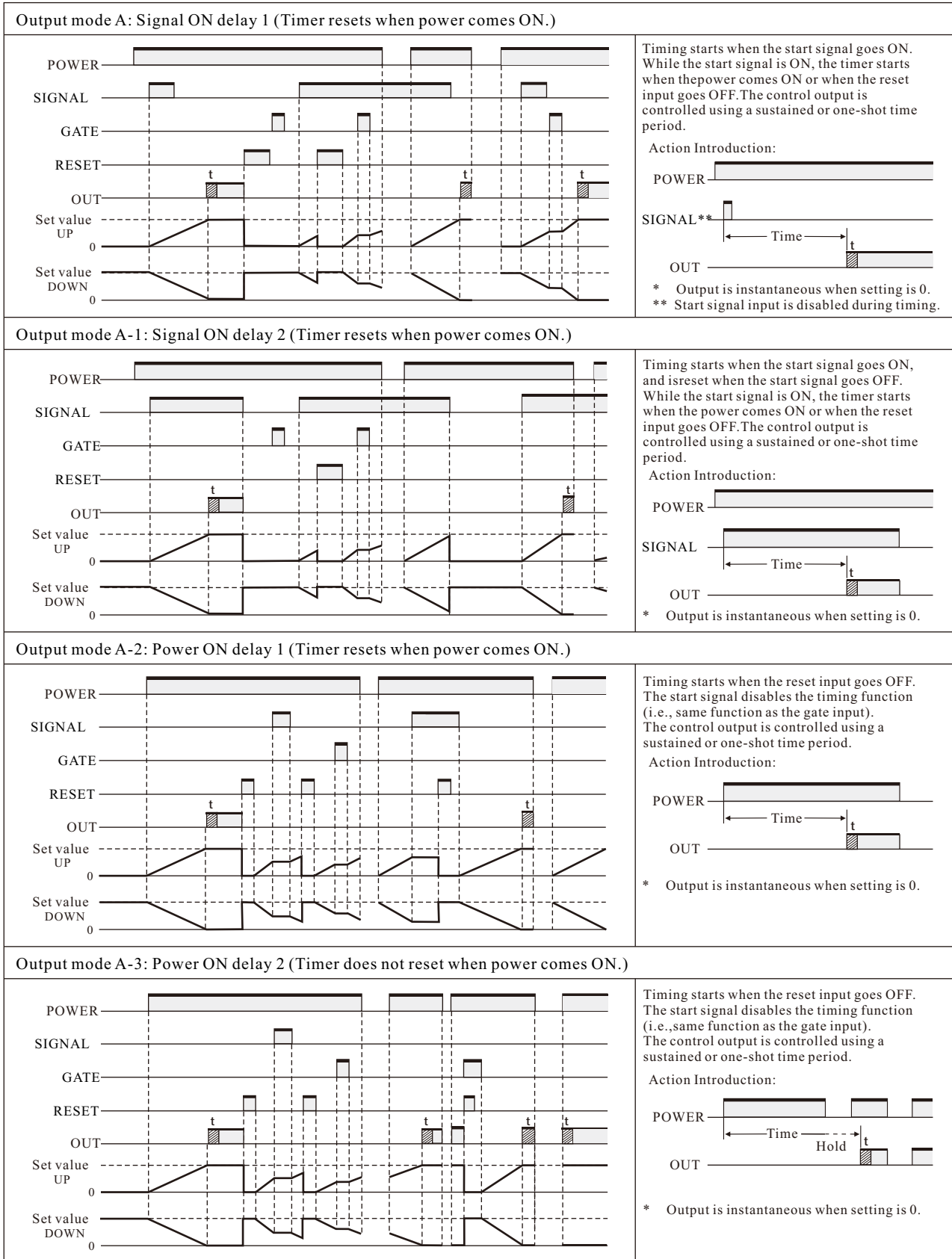


Note: KP switch to the ON state, KP to take effect.

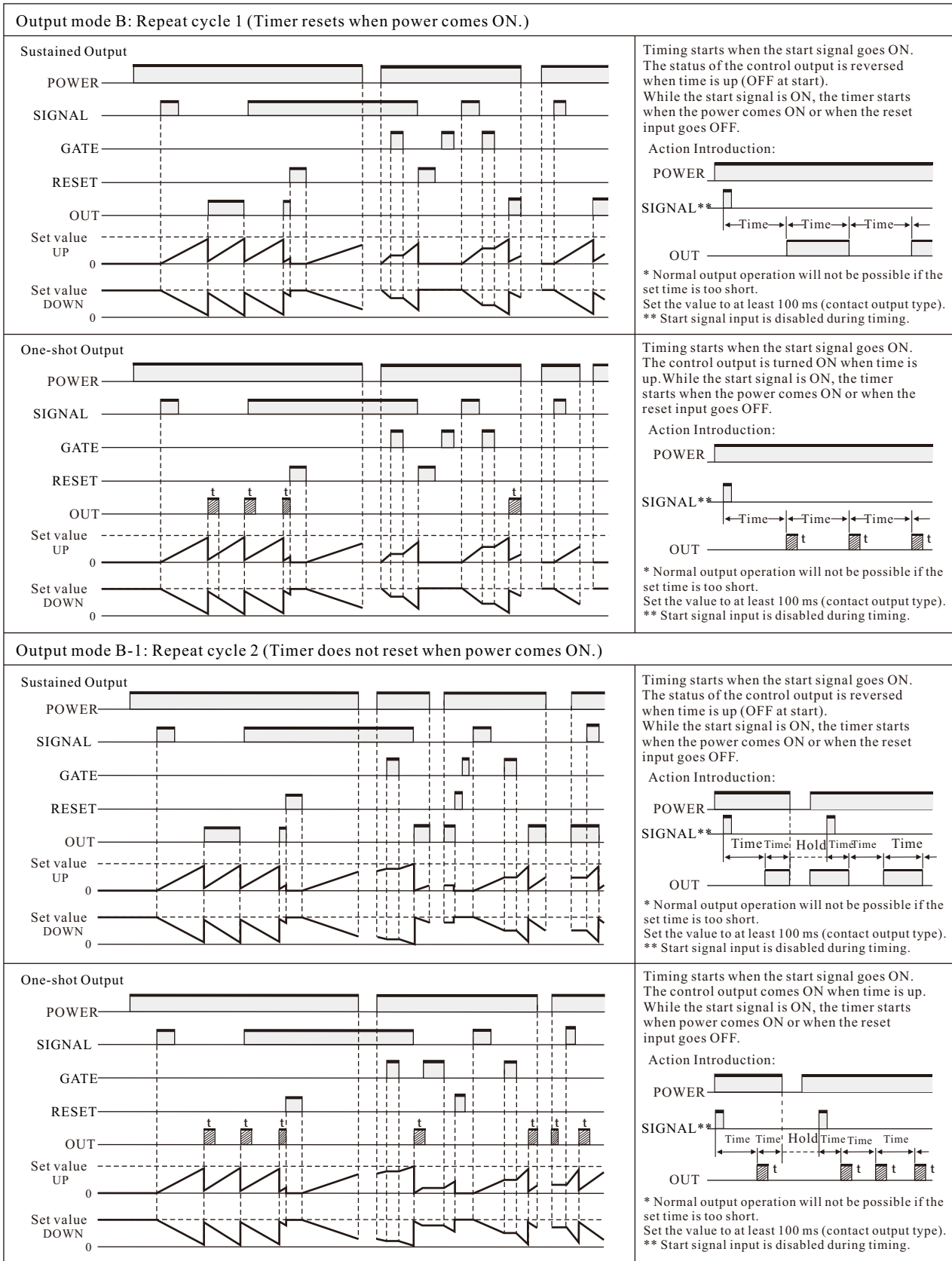


# Output mode action diagram

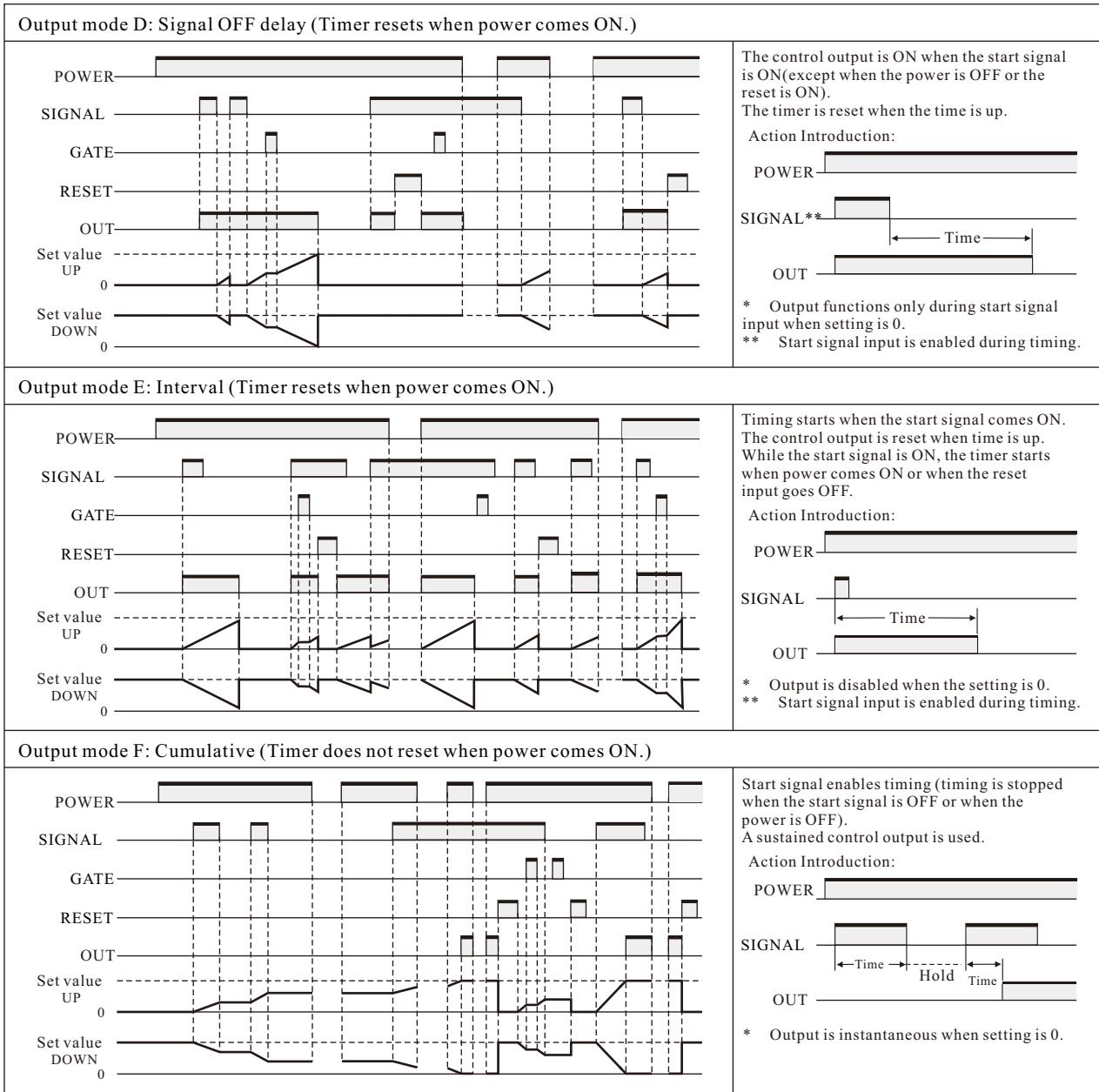
## Output mode of action Figure



# Output mode action diagram

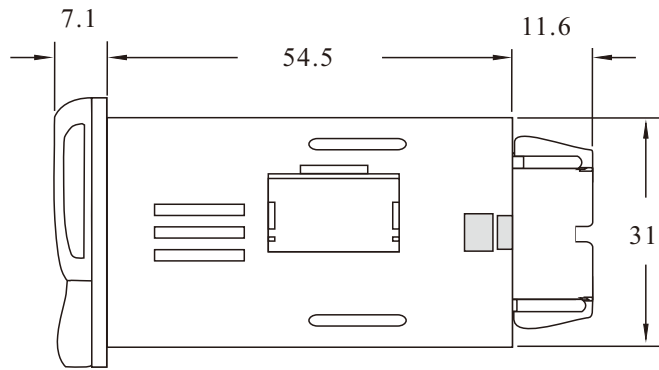
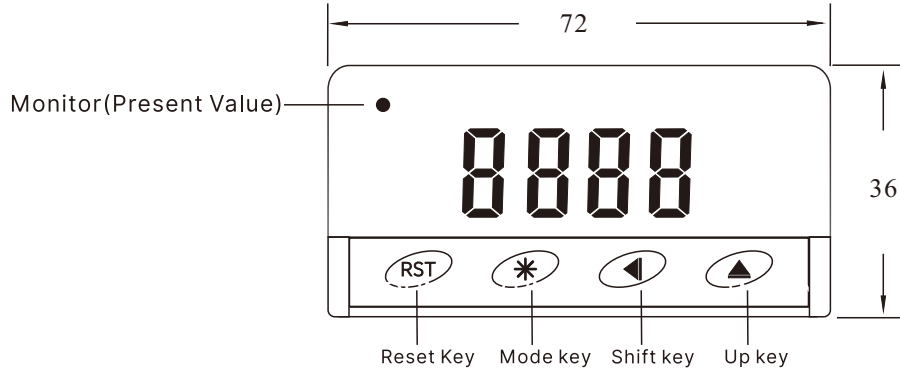


# Output mode action diagram

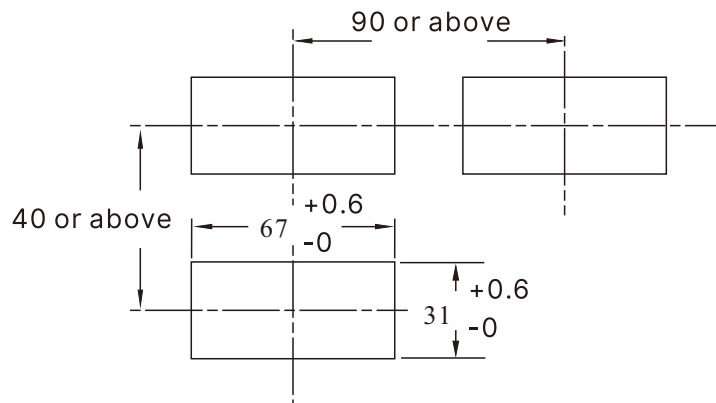




## ■ The panel and the size(mm)



Panel cut-out:



# ■ Wiring diagram

