




DIGITAL TIMER: tA-01T

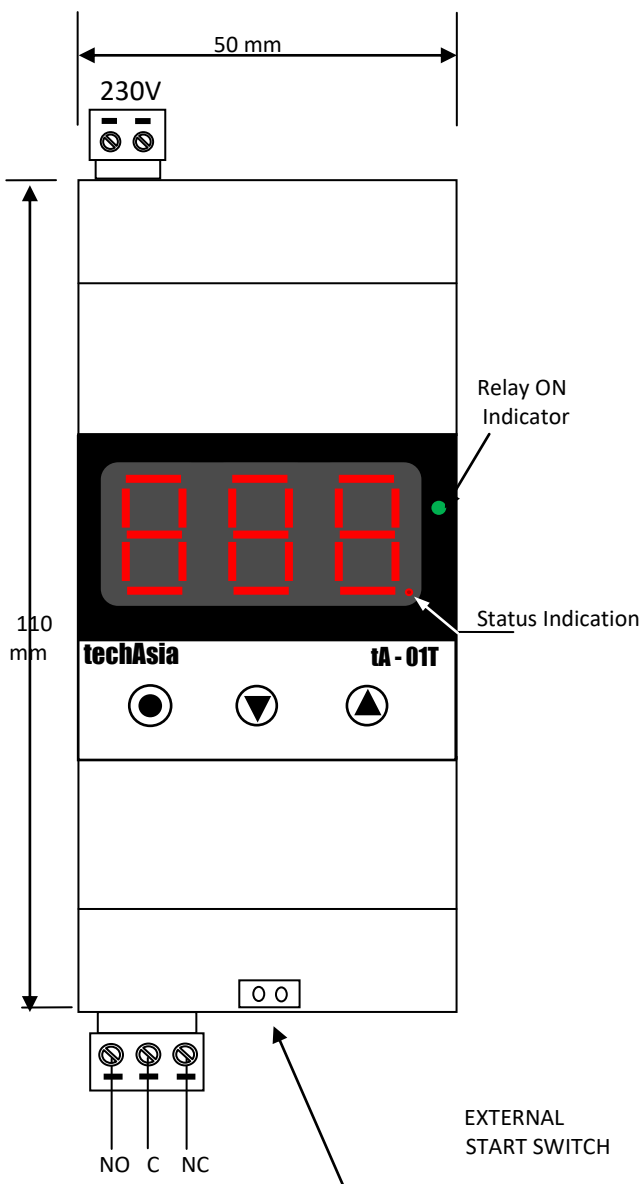
Features:

1. Two operating modes **Delay timer** and **cyclic timer**.
2. Big 3 digit seven segment display for long distance visibility.
3. Selectable second mode and minute mode.
4. Power On start count Or Key press to start count mode selection.
5. Front keypad setting.
6. DIN rail mount.

Key Functions:

Key	Function
	1. SET Key hold for 3 sec is used to enter into Time Setting Mode. 2. It is used to Start time count when Manual start mode is set in parameter settings.
	UP Key is used to increment value. *UP And Down Key combination used to enter into parameter settings
	DOWN Key is used to decrement value. *UP And Down Key combination used to enter into parameter settings

Timer Front Panel:



Specifications:

Parameters	Specifications
Display Type	7 segment LED
Display Configuration	3 Digits
Display Colour	RED
Relay Contact	1 NO/1 NC SPST
Range	0 - 999 sec/0 - 999 min
Operations Modes	On delay Off delay Second Mode Minute Mode Cyclic On/Off Mode Auto/Manual Mode
Reset	Power Interruption/ External Switch
Counting Direction	Down
Supply Voltage	230V AC
Size	50mm × 110mm × 70mm
Mounting Type	Panel Mounting DIN Rail
Operating Temperature	0 °C to 50 °C

Display Description:

Display	Description
	Delay Timer Mode
	Cyclic Timer Mode
	On Time: Set ON time for Cyclic mode
	Off Time: Set OFF time for Cyclic mode
	Parameter settings.
	Mode: To select Delay /Cyclic timer mode.
	Timer Start Mode: To select auto/manual mode
	Auto Mode: Count start on Power ON
	Manual Mode: Count start after key press
	Second – Minute: Select sec/ min mode.
	Second: Count in second
	Minute: Count in Minute

Parameter Settings:

A. To Select Mode Of Operation:

Step1: Press and hold UP key & DOWN key for 3 sec to enter parameter settings.

Step2: Press UP key / Down key to Select mode

Step3: A. Select Delay Timer Mode.

B. Select Cyclic Timer Mode

Step4: Press SET key to set next parameter OR Auto exit after 10 sec of inactive.

B. To Select Auto Start / Manual Start:

Step1: Press & hold UP key and DOWN key for 3 sec to enter parameter settings.

Step2: Press UP key / DOWN key to select start timer function & Press SET key to enter.

Step3: Select Auto / Manual Mode using UP key / DOWN key .

Step4: Press SET key to set next parameter OR auto exit after 10sec of inactive.

Auto [Timer count starts with **Power ON**]

Manual [Timer count starts **after Key press (SET key OR External key) only**]

C. To Select SECOND / MINUTE Mode:

Step1: Press and hold UP key and DOWN key for 3 sec to enter parameter settings

Step2: Select Second / Minute

Step3: Press SET key

Step4: Select Second/Minute using UP key and DOWN key .

Counts in Second

Counts in Minute

Step5: Press SET key to Exit OR Auto exit after 10sec of inactive.

Delay Time Settings:

Delay Timer Mode:

(*** if delay timer mode set in parameter settings then it allows to set Delay time only)


Step1: Press and hold SET key for 3 sec. Displays for 1sec.

Step2: Set desired delay time using UP key / DOWN key

Step3: Press SET key to save and Exit. OR Auto exit after 10sec of inactive.

Cyclic Timer Mode:


(*** if **CE** cyclic timer mode set in parameter settings then it allows to set cyclic on and cyclic off time only.)

Step1: Press and hold SET key  for 3 sec. Displays **CE** for 1 sec.

Step2: Set ON time **On** using UP key  and DOWN key 

Step4: Press SET key  to save ON time.

Step4: Set OFF time **OFF** using UP key /DOWN key .

Step5: Press SET key  to save and Exit. OR Auto exit after 10 sec of inactive.

SAFETY PRECAUTIONS:

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not handled in a manner specified by the manufacturer it might impair the protection provided by the equipment.

CAUTION: Read complete instructions prior to installation and operation of the unit.

WIRING GUIDELINES:

1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
2. To eliminate electromagnetic interference use short wires with adequate ratings; twists of the same in equal size shall be made. For the input and output signal lines, use shielded wires and keep them away from each other.
3. Cable used for connection to power source, must 2 have across section of 1mm or greater. These wires shall have insulation capacity made of at least 1.5kV.

INSTALLATION GUIDELINES:

1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
 2. Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
 3. 3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However this switch or breaker must be installed in a convenient position normally accessible to the operator.
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