

CYCLIC DIGITAL TIMER



Thank you for purchasing this **Cyclic Digital Timer**. Please read this manual before operating the unit. Store this manual in a safe, easily accessible place for your future reference.

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CAUTION

- To avoid electric shock, power supply of the unit should be kept off while wiring.
- Wiring should be done strictly as per the terminal layout, given in the manual.
- Use lugged terminals to meet M3.5 screws.
- This unit is not intended for outdoor use.
- The power connection cable must have a cross-section of at least 1mm² and insulation capacity of at least 1.5kV.
- Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.
- The unit must not operate in presence of heating sources, caustic vapours, oil, steam, vibration or impact etc.

SPECIFICATIONS

Display: 2 digit seven segment display
0.5" height red color.

Supply: 110/220/415 V AC, 50 Hz.

Operating Modes: ON first/OFF first, Required Number of cycle, Cyclic.

Time Ranges: 1.0 to 99 sec/mins/hrs.

Counting Direction: Up or Down

Relay Ratings: NC-20A,30A@120VAC/1HP

240VAC/2HP,28VDC.

NO-30A@120VAC/1HP 240VAC/2HP.

Reset : On interruptions of power in memory off mode, Star button for 3 sec.

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Output Contact : SPDT (1C/O)

Accuracy : 0.05%(±50msec) of set time.

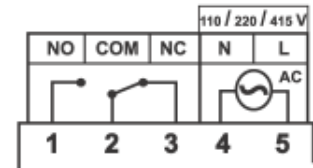
Power Consumption : 2 watts.

Mounting : Wall mounting, Screw mounting.

Size(in mm) : 95(W) X 50(H) X 110(D).

Weight : 300 grams

TERMINAL CONNECTIONS

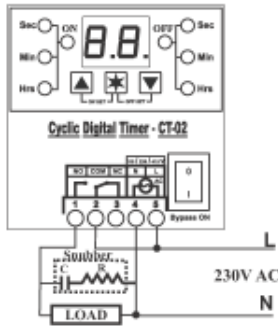


Terminal	Description
1-2-3	NC-COM-NO of relay
4-5	Neutral-Line 230v AC

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LOAD CONNECTIONS

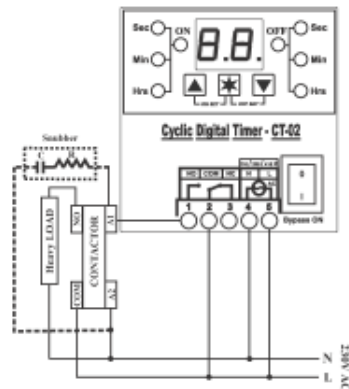
For Load current less than 20A



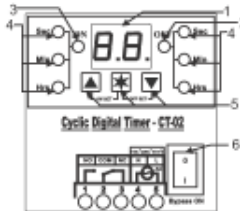
NOTE: Use snubber as shown above to increase relay life of counter.

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For Higher Loads Use interposing Contactor/relay



FRONT PANEL DESCRIPTION



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	On line	Config
1	Process time	Parameter setting
2	Output Indication(LED glow when OFF time delay is running).	Parameter indication (LED glow if OFF time first/Memory Off/down count is selected)
3	Output Indication(LED glow when ON time delay is running).	Parameter indication (LED glow if ON time first/Memory On/Up count is selected)
4	Time range Indication of ON/OFF time.	No indication
5	Function keys.	
6	Bypass ON/OFF Switch.	

FUNCTIONS OF KEYS

Keys	Function
▲	UP Button for decrement or display ON time value.
★	Star Button for Functions selection. press 3 sec for Reset , press 15 secs for enter into configuration settings.
▼	Down Button for increment or display OFF time value.
▲+★	Press 3 secs for set ON time value.
★+▼	Press 3 secs for set OFF time value.

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ON/OFF Time Setting Instruction

Follow the below steps for :

- a) press ▲+★ keys for 3 secs to **ON** time value settings.
- b) press ★+▼ keys for 3 secs to **OFF** time value settings.
- Edit only 7 segment LEDs while **Blinking**.
- Use ▲+▼ Keys to Increment and decrement values.
- Press ▲ key to scroll through various time range. Sec, Min, Hrs indication LED will indicate selected time range.
- For save the selected value, leave for 15 sec of keys inactive or once switch ON and OFF the Bypass switch.

Time Range

Seconds Range - 1.0 to 99 sec

1.0 to 9.9(fraction value X 100ms).
Ex:2.6 sec= 2sec-600ms.

above 10 sec no fraction value.

Minutes Range - 1.0 to 99 min

1.0 to 9.9(fraction value X 6 sec).

Ex:4.5 min= 4min-30sec.

above 10 min no fraction value.

Hours Range - 1.0 to 99 Hrs.

1.0 to 9.9(fraction value X 6 min).

Ex:5.6 min= 5hrs-36min.

above 10 hrs no fraction value.

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CONFIGURATION PARAMETERS

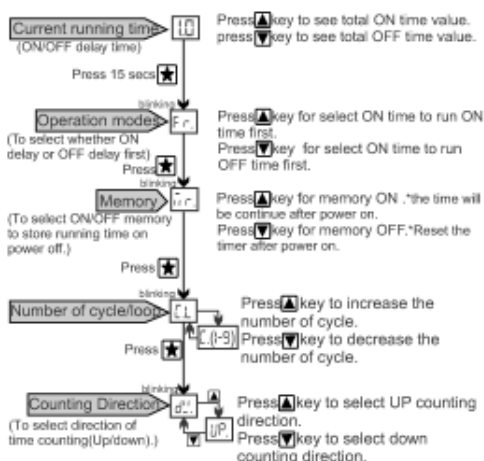
F r - Operation modes (ON/OFF First)

M r - Memory ON/OFF

C L/C (I-9) - Cycle (Loop/Number of cycle)

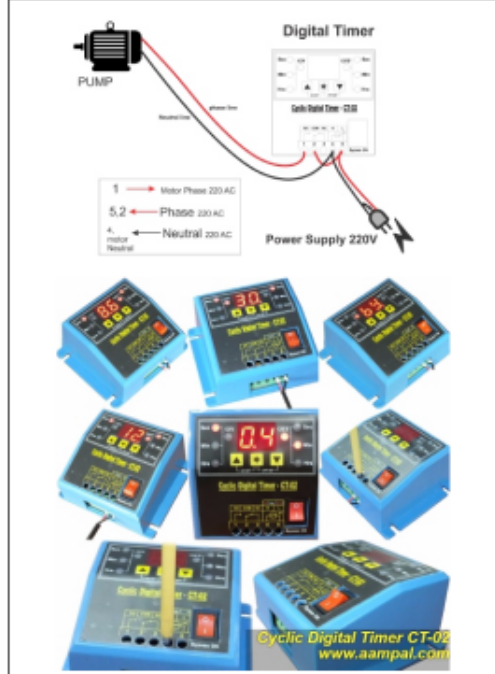
U P/d - Counting Direction(Up/Down)

CONFIGURATION INSTRUCTION



After select required configuration leave for 15 sec without press any key, the blinking will stop and configurations will save.

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