



USER MANUAL

TIMER

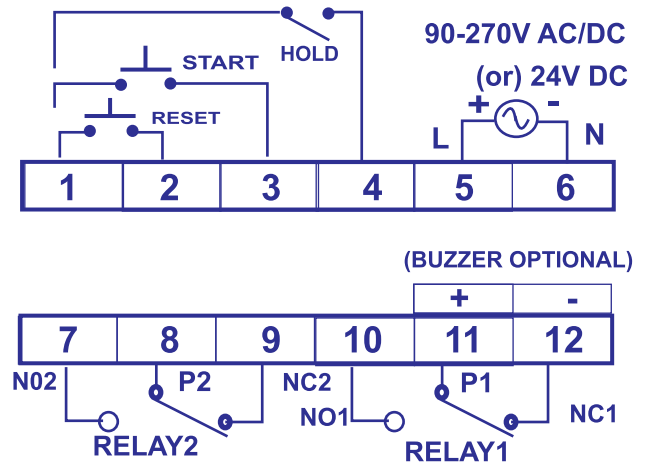
Model : DT 70A



1. Specification

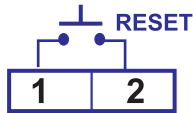
Timing Range	0 - 99.99 sec, 0 - 999.9 sec, 0 - 9999 sec, 0 - 99.59 min, 0 - 999.9 min, 0 - 9999 min, 0 - 99.59 Hrs, 0 - 999.9 Hrs, 0 - 9999 Hrs.(PROGRAMMABLE)
Resolution	0.01 sec, 0.01 min, 0.01 hrs
Relay Output	Two change over Relay (or) Two Relay (or) Buzzer O/P(optional)
Display	4 Digit 0.5" 7 Segment LED display
Power Supply	90 To 270V AC/DC or 24 V DC(any one factory setting)
Frequency	50/60Hz
Operating Temperature	0 - 50 ° C (32 ° F TO 122 ° F)/ 5 - 95 % Rh
Over All Dimension	72(H) X 72(W) X 110(D) mm
Cut out Dimension	68(H) X 68(W) mm
Weight	200 grams (Approximately)

2. Terminal Arrangement



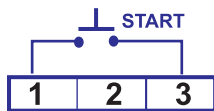
3. Reset

1. To Reset The Running Time Press RST/ENT  Key For 3 Sec Continuously.(NOTE : If Front reset disabled in configuration it should not reset the time.)
2. For Remote Reset, Connect Reset Switch Contact at Connector 1 & 2 To Reset Immediately.



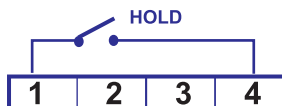
4. Pulse Start

1. For Pulse Start, enable the pulse start on configuration.
2. Then Connect the Start Switch Contact at Connector 1 & 3 to Start the Timer From External Contact Switch.



5. Hold

1. For HOLD the running time, connect the HOLD switch at Connector 1 & 4 to HOLD the Timer From External Contact Switch.(NOTE : At hold time the relay automatically turns to OFF condition.



6. Configuration Settings

1. FIRST STAGE



DIGIT "A" - UP / DOWN COUNTING SELECTION
 DIGIT "B" - DELAY MODE SELECTION
 DIGIT "C" - TIMING RANGE SELECTION

2. SECOND STAGE



DIGIT "D" - START MODE SELECTION
 DIGIT "E" - FRONT RESET SELECTION
 DIGIT "F" - MEMORY MODE SELECTION

7. Programming and Configuration

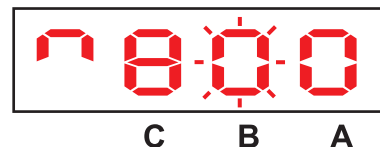
1. To Enter into the Configuration Setting FIRST STAGE Press MODE  Key continuously for 10 sec.
2. After that display Enter into the FIRST STAGE of Configuration Setting with display Blinking of Digit "C".
3. Use SET  Key to Select the Timing Range roll over between 0 - 8 and select any one Range as follows.

Digit 'C'	Max. Range
0	99.99Sec
1	999.9Sec
2	9999Sec
3	99.59Min Sec
4	999.9Min
5	9999Min
6	99.59Hrs Min
7	999.9Hrs
8	9999Hrs



4. Use MODE  KEY to Move to next DIGIT "B", for selecting the Relay Mode using SET  KEY roll over between 0 - 3 and select any one mode as follow.

Digit 'B'	Relay mode	Description
0	'ON' Delay	Relay ON, After reach the Set time.
1	'OFF' Delay	Relay OFF, After reach the Set time.
2	Cyclic 'ON' First	Relay ON, till reach the ON time. After Reach ON time, Relay OFF, till reach the OFF time. After Reach OFF time 'CYCLIC' ly the ON time Starts Running Automatically.
3	One Short Cyclic	Relay ON, till reach the ON time. After Reach ON time, Relay OFF, till reach the OFF time. After Reach OFF time the process completed the CYCLE.



5. Use MODE  KEY to Move to next DIGIT "A", for selecting the UP / DOWN Counting Mode using SET  KEY roll over between 0 & 1 and select any one mode as follow.

Digit 'A'	Counting mode	Description
0	UP Counting	Time Runs From Zero to Set Value.
1	DOWN Counting	Time Runs From Set Value to Zero.



6. Then Press RST / ENT  Key to Save and Enter into the SECOND STAGE of Configuration Setting.
7. Now the DIGIT "F" display with Blinking on Second Stage, for selecting the Memory Mode using SET  KEY roll over between 0 & 1 and select any one mode as follow.

Digit 'F'	Memory Mode	Description
0	Disable	After power OFF and ON, Time Reset and starts From Set Value.
1	Enable	After power OFF and ON, Time starts From Last Memory Value.



8. Use MODE  KEY to Move to next DIGIT "E", for selecting the Front Reset Mode using SET  KEY roll over between 0 & 1 and select any one mode as follow.

Digit 'E'	Reset Mode	Description
0	Enable	To Reset the running time using Front RST / ENT Key, By pressing 3 sec continuously will be Enabled.
1	Disable	To Reset the running time using Front RST / ENT Key, By pressing 3 sec continuously will be Disabled.



9. Use MODE  KEY to Move to next DIGIT “D”, for selecting the Start Mode using SET  KEY roll over between 0 & 1 and select any one mode as follow.

Digit 'D'	Start Mode	Description
0	Power “ON” Start	After power OFF and ON, Time starts Running Automatically.
1	Pulse Start	Time Starts, By Pressing the Switch Connected at Connector 1 & 3.



10. Then Press RST / ENT  Key to Save and Exit. Now the Timer is ready for your Selected Application.
 11. Now you Confirm the selected Parameter by Press the MODE  KEY the display Shows the First and Second Stage.

8. Relay Setting (ON(set) Time and OFF Time)

1. To set the Relay ON(set) Time, by pressing SET  KEY For 3 sec continuously.
2. Now the Digit in 1000'S place gets Blinking, Using SET  KEY Select the required digit 's Roll over between 0 - 9.
3. Then move to 100'S by Pressing MODE  KEY.
4. Using the above method set the ON(set) time and Press RST / ENT  Key to Save and Enter into the OFF Time Setting(NOTE: For ON and OFF Delay Modes, after pressing RST / ENT  Key it will Exit to the Read time).
5. Now the Digit in 1000'S place gets Blinking, Using SET  KEY Select the required digit 's Roll over between 0 - 9.
6. Then move to 100'S by Pressing MODE  KEY.
7. Using the above method set the OFF time and Press RST / ENT  Key to Save and Exit to Read Time.
8. Now you Confirm the selected ON and OFF Time by Press the SET  KEY the display Shows the ON and (If CYCLIC or ONE SHORT CYCLIC Mode Selected)OFF Time.

NOTE : For 2 Relay output Model Timers the OFF Time Set is taken as the Second Relay ON Time Set.



For further clarification kindly contact us.



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