

# DIGITAL TIMER



## FEATURES

- Microcontroller based design
- High Accuracy
- Individual and Multifunction
- 5 Digit Display
- Two Relays output
- Flexible Design
- Flexible Control Input
- Non Erasable Memory Storage



## TECHNICAL SPECIFICATION

### MEASURED QUANTITIES

Function	: a) ON Delay b) OFF Delay c) Cyclic d) Interval e) Event Duration f) Time Totaliser
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### RANGE

Time Range	: 0-99999 Sec./Min./Hr.
Time Resolution	: 0.01 / 0.1 / 1 Sec. 0.01 / 0.1 / 1 Min. 0.01 / 0.1 / 1 Hour
Accuracy	: ±0.01%

### DISPLAY

Display	: 7 Digit 0.39" 7 Segment Red LED 5 Digit 0.5" 7 Segment Red LED
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### INPUT

Control Input	: Start, Stop and Reset with Remote connection facility
Start Input	: Manual P.B., / External NO-NC Contact, Power ON Interruption (All Functions)
Stop Input	: Manual P.B., / External NO-NC Contact (Event Duration Function Only)
Reset	: Manual P.B., / External NO-NC Contact, Power ON Interruption (All Functions)

### OUTPUT

Output Contacts	: Two Relays with 1 C/O Potential Free contact for each Set Point
Relay 1 Function	: Refer Figure
Relay 2 Function	: Refer Figure
Contact Rating	: 5 Amps at 240 VAC

### KEY FUNCTIONS

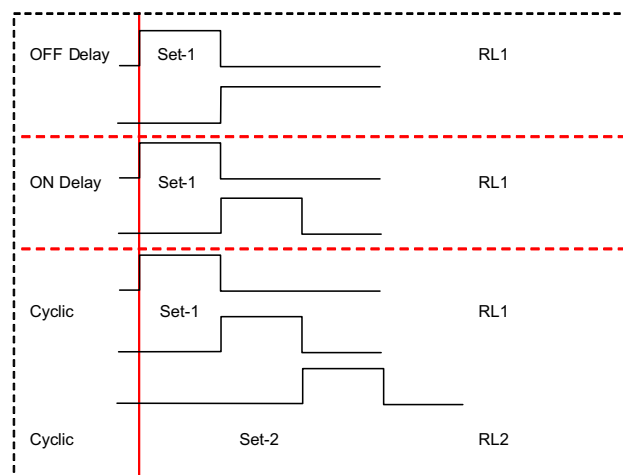
Function Selection	: By Keypad
Keypad Details	: 4 Keys Namely Index, Shift, Increment and Enter
Count Mode	: UP
Program mode setting	: Set1, Set2, Interval, Reset Function selection
Password Protection	: Available
Memory Retention	: 10 Years
Optional Features	: Custom Designed Changes and Solutions Possible

### RATING

Auxiliary Power Supply	: 90-270VAC 50Hz
Ambient Temperature	: 55°C (Max.)
Relative Humidity	: 5-95% Rh Non-condensing

### CASE AND DIMENSIONS

Enclosure	: ABS Plastic
Dimension	: 96(H) x 96(W) x 120(D) mm
Cutout	: 88(H) x 88(W) mm
Mounting	: Panel



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Note: Specifications are subject to change without prior notice due to continuous improvement in product development.

# SEQUENTIAL TIMER

**TMR 150**



## FEATURES

- Microcontroller based design
- ON/OFF Interval Sequence
- User Friendly
- External Control Action
- Channel Pause Facility
- Expandable Channels up to 64



## TECHNICAL SPECIFICATION

Type : ICD Make Micro controller based Digital Sequential Timer  
 Model No. : TMR150  
 Function : Sequential with Interval  
 No. Of Channels : Minimum 4 to Maximum 64  
 Construction : A Master timer module housing 16 channels and additional 17 to 64 are expandable with extension of Relay unit. Each Relay unit housing 16 Relays

### DISPLAY

Display : a) 1 Digit 0.5" 7 Segment Red Display for time base  
 b) 2 Digit 0.5" 7 Segment Red Display for Channel Number  
 c) 4 Digit 0.5" 7 Segment Red Display for Timing  
 Status Indication : ON/OFF/interval time indication by LED's

### RANGE

Time Setting Available : ON Time  
 OFF Time  
 Pause Time  
 Time Range : 9999 Sec. / Min. / Hr.  
 Time Resolution : 0.01 / 0.1 / 1 Sec.  
 0.01 / 0.1 / 1 Min.  
 0.01 / 0.1 / 1 Hour  
 Accuracy :  $\pm 0.05\%$   
 Repeatability :  $\pm 0.05\%$

### FUNCTION

Auto Operation : The Cycle repeats automatically The Cycle can be started from channel one or can be last channel from memory during power interruption.  
 Manual Operation : Particular Channel can be made ON by selecting the channel and initiating start button  
 Memory Retention : Program and timing values are retained in case of power failure

### OUTPUT

Output Contacts : One Relay with 1 NO contact for each Channel. 16 Relays are available in the instrument and a separate Relay Box is provided for additional channels

### RATING

Contact Rating : 5 Amps at 240 VAC  
 Auxiliary Power Supply : 230V AC  $\pm 10\%$  50Hz  
 Operating Temperature : 55°C (Max.)  
 Relative Humidity : 5-95%RH Non condensing

### KEYPAD FUNCTION

Time Setting : Front key pad with password protection  
 Channel Pause Facility : Provided. Selection by Keys  
 Cycle Repetition : Auto mode - Cycle Repeats Continuously  
 Auto/Manual Selection : Front Keypad

### CASE AND DIMENSION

Enclosure : Sheet steel powder coated, dust proof metal case suitable for IP54  
 Box Dimension : 350(W) x 200(H) x 130(D) mm  
 Mounting : Projection

### ADDITIONAL RELAY BOX MODULE

Number of Expansion : Max. 3  
 Number of Relays : 16 per expansion  
 Input : Through 'D' Type connector from master Sequential Timer  
 Output Contacts : One Relay with 1 NO contact for each channel  
 Contact Rating : 5 Amps at 240V AC  
 Box Dimension : 225(W) x 180(H) x 50(D) mm  
 Mounting : Projection

For AC Operation : This should be same as the control supply voltage  
 For DC Solenoids : It may be 24V DC, to be supplied by the user  
 24V DC,  
 250mA rating

Note: Custom designed solutions available as per specifications