School Bell Timer + Multi Event Timer
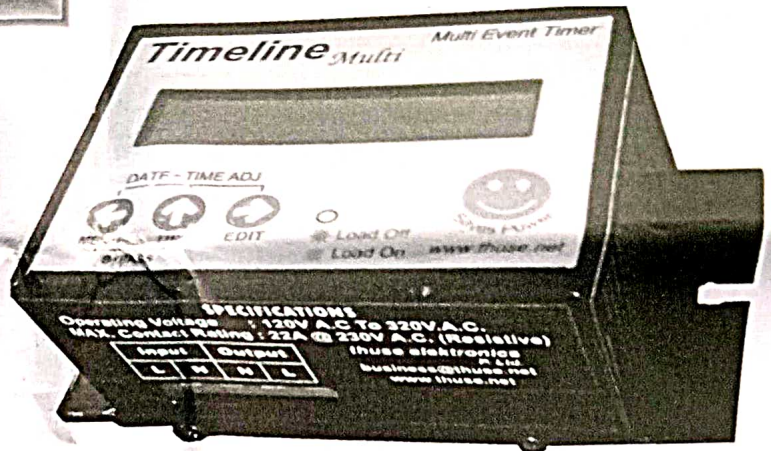

Product Overview:

- TimeLine Multi is an Event Based pre-settable timer in which user can feed the schedule at once and it will control the load as per the schedule and given time.
- Developed mainly for:
  - **Scholl Bell ON/OFF** in pre-scheduled manner and at accurate time with taking care of holidays.
  - **Factory sirens, Office Tea time/Lunch time Bells** control in pre-scheduled manner.
  - **Water Irrigation System (Sprinkler)** control in pre-scheduled manner.
  - **Home Appliance control** at pre-scheduled time mainly for:
    - Water Heater, Geyser.
    - Washing Machine.
    - Air Conditioner (AC) Control.

Salient Features	Specifications

- 16x2 LCD display and 3 Keys for user
- Max. 30 Programmable events per day.
- Weekdays setting for each event.
- 20 user programmable holiday dates.
- 10 user programmable holiday date ranges.
- Programmable event ON time duration.
- Bypass mode for manual operation.
- Timer Modes: 1.School Bell timer
                2.Multi Event Timer
	- Supply Voltage: 130V-350V AC/50Hz
	- Output Contact ratings: 5 KW at 230V
	- Dimensions: 73 (H) x 118(V) x 63(D)
	- Compliant To the following IEC standards:
	  IEC 61000-4-4
	  IEC 61000-4-5
	  IEC 61000-4-11
	  IEC 61000-4-14
	  IEC 61000-4-28

Note: The only difference in School bell mode is that Bypass mode keeps the load ON only for 15 seconds, as to avoid the school bell ringing continuously and getting damaged.

Operating Instructions:

1. Current Date and time settings

Step	Operation	Key	Display
1	To Select date and time edit settings	Press (MENU+UP+EDIT) for 2 seconds	'Date' field of current date blinks(DD:MM:YY)
2	To change the value of blinking field	Press **UP** key	Value corresponding to blinking field increases
3	To move the cursor to next field	Press **EDIT** Key	Next field blinks
4	To save and exits Current date/time settings	Press **EDIT** key till blinking cursor is at the last field and press **EDIT** key one more time	'SETTINGS SAVED' message flashes

Note: If settings are left incomplete (no key is pressed for 10 seconds), whatever setting done so far will automatically get saved after 10 seconds and setting mode exits.

2. Select Bypass Mode (Manual ON/OFF) For Multi Event Timer

Step	Operation	Key	Display
1	To Select Bypass Mode	Press and hold (MENU+UP) keys for 2 seconds.	'BYPASS MODE' is displayed
2	To exit from Bypass Mode	Press and hold (MENU+UP) keys for 2 seconds.	Default display as 'HH:MM:SS ' 'DD/MM/YY [DAY]'

Note: Bypass mode is used for manually turning ON or OFF the load.

3. Select Bypass Mode (To Manually Ring the Bell) For School Bell Timer

Step	Operation	Key	Display
1	To Select Bypass Mode	Press and hold (MENU+UP) key for 2 seconds.	'BYPASS MODE' is displayed

Note: Bypass Mode Will Only keep the Bell ON for 15 seconds after that it will automatically OFF.
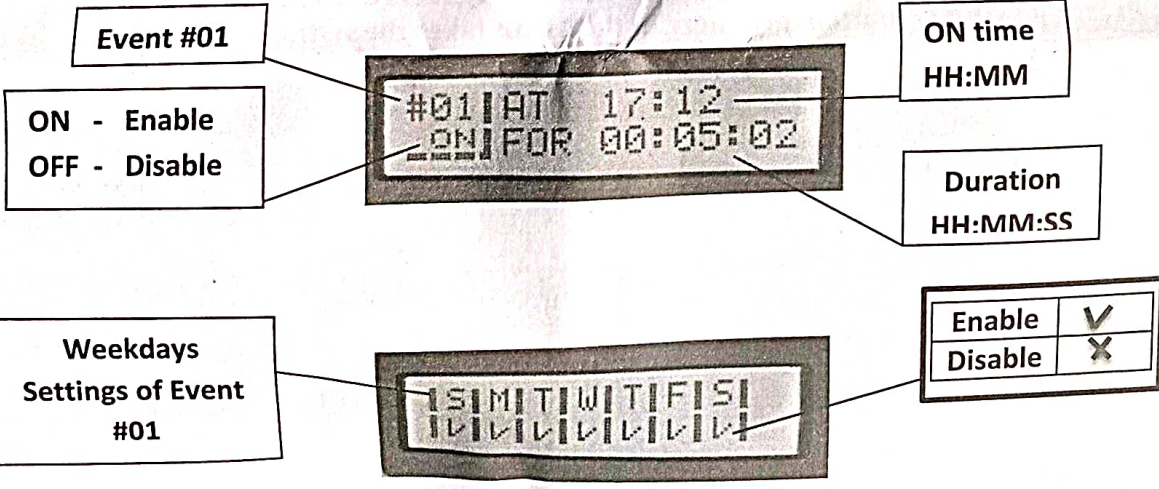
4. To VIEW/EDIT events

Step	Operation	Key	Display
1	To enter main menu	Press **MENU** key for 2 seconds	' MENU: ' '> VIEW/EDIT '
2	To scroll menu items	Press **UP** key	' MENU: ' '> HOLIDAY RANGE '
3	Next menu item	Press **UP** key	' MENU: ' '> HOLIDAY '

Pressing 'UP' key shows next menu item in the list

Step	Operation	Key	Display
3	To enter VIEW/EDIT event settings	Press **EDIT** key when ' VIEW/ EDIT' option is onscreen	'#01 | AT HH:MM' 'OFF| FOR HH:MM:YY' And 'S | M | T | W | T | F | S |' ✗ ✓ ✗ ✓ ✗ ✓ ✓ Alternately

Settings of Event No. 1 are shown on Display. This is VIEW mode.

Event #01 | ON time HH:MM

ON - Enable
OFF - Disable

```
#01|AT   17:12
ON|FOR 00:05:02
```

Duration HH:MM:SS

Weekdays Settings of Event #01

Enable ✓
Disable ✗

```
|S|M|T|W|T|F|S|
|✓|✓|✓|✓|✓|✓|✓|
```

Step	Operation	Key	Display
4	To view next event in the list	Press **UP** key	'#02 | AT HH:MM' 'OFF| FOR HH:MM:SS ' And 'S | M | T | W | T | F | S |' ✗ | ✓ | ✗ | ✓ | ✗ | ✓ | ✓ Alternately

*Event which is currently being displayed can be edited right there by pressing 'EDIT' key

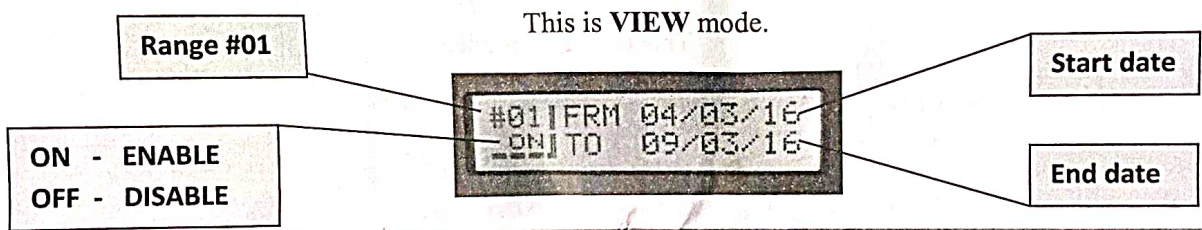| 5 | To edit event currently | Press **EDIT** key | 'OFF' field of blinks. |

6	To change the value of blinking field	Press **UP** key	Value of blinking field changes
7	To move to next field	Press **EDIT** key	Next field blinks

*Similarly, all fields can be edited. After duration is set, weekdays settings for the same event is displayed
'S | M | T | W | T | F | S |'
' x | x | x | x | x | x | x |'
First Cross mark of Sunday blinks.

8	To change the value of blinking field (✘ or ✔)	Press **UP** key	Value of blinking field changes
9	To move to next Field	Press **EDIT** key	Next field blinks

Once all days are set, 'CHANGES SAVED' message is displayed and control is back to 'VIEW' Mode with display as:

XX – Event No.

'#XX | AT   HH:MM'
'OFF | FOR   HH:MM:YY'
And
'S | M | T | W | T | F | S |'
✘ ✔ | ✘ | ✔ ✘ | ✔ | ✔ '

Alternately

Now, you can use UP key to VIEW event
Also, Pressing 'MENU' button anywhere in the Menu takes the settings one step back by automatically saving the current changes.

10	To exit from **VIEW/EDIT** option	Press **MENU** key.	' MENU:' ' > VIEW/EDIT '
11	To exit from the menu	Press **MENU** key again.	'HH:MM:SS' 'DD/MM/YY [DAY] '

Default display contents are
'HH:MM:SS   '
'DD/MM/YY   [DAY]'
Also, upcoming event is shown alternately for 4 seconds.

5. View/edit Holiday Range Settings

Step	Operation	Key	Display
1	To enter main menu	Press **MENU** key for 2 seconds	' MENU: ' '> VIEW/EDIT '
2	To scroll menu items	Press **UP** key	' MENU: ' '> HOLIDAY RANGE '
3	To enter 'HOLIDAY RANGE' settings	Press **EDIT** key	'#01 |FRM DD/MM/YY' 'OFF |TO DD/MM/YY'

This is **VIEW** mode.

Range #01		Start date

```
#01|FRM 04/03/16
 ON|TO  09/03/16
```

ON - ENABLE		End date
OFF - DISABLE		

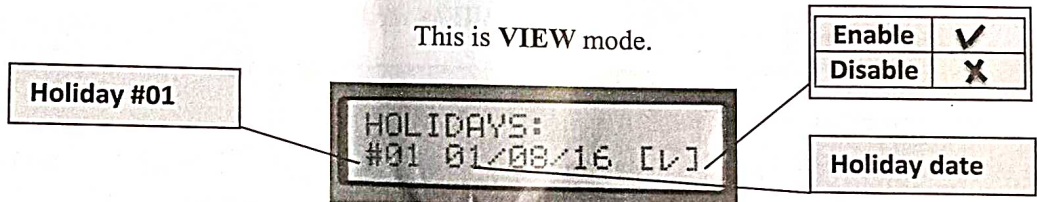| Step	Operation	Key	Display
4	To view next holiday in the list	Press **UP** key	'#02 |FRM DD/MM/YY' 'OFF |TO DD/MM/YY'
	*Holiday range which is currently being displayed can be edited right there by pressing 'EDIT' key		
5	To edit holiday info currently displayed on LCD	Press **EDIT** key	Date field of start date blinks
6	To change the value of blinking field	Press **UP** key	Value of blinking field changes
7	To move to the next field	Press **EDIT** key	Next field blinks
	*Similarly, all fields can be edited. After last field is set by pressing NEXT key, changes are saved and control is back to VIEW mode.		
8	To exit from holiday settings	Press **MENU** key	'MENU: ' '> HOLIDAY RANGE '
9	To exit from the menu	Press **MENU** key again	'HH:MM:SS ' 'DD/MM/YY [DAY]'

*Note:
1. Pressing MENU button anywhere in the Menu takes the settings one step back by automatically saving the current changes.
2. If settings are left incomplete (No key is pressed for 2 minutes), whatever setting done so far will automatically get saved after 2 minutes and setting mode exits.

6. View /Edit Holiday Settings

Step	Operation	Key	Display
1	To enter main menu	Press **MENU** key for 2 seconds	' MENU: ' '> VIEW/EDIT '
2	To scroll menu items	Press **UP** key	' MENU: ' '> HOLIDAY '
3	To enter 'HOLIDAY' settings	Press **EDIT** key	'HOLIDAYS: ' '#01 DD/MM/YY [x] '

This is **VIEW** mode.

Enable	✔
Disable	✘

Holiday #01

```
HOLIDAYS:
#01 01/08/16 [✓]
```

Holiday date

Step	Operation	Key	Display
4	To view next holiday in the list	Press **UP** key	'HOLIDAYS:' '#02 DD/MM/YY [x] '

*Holiday info which is currently being displayed can be edited right there by pressing 'EDIT' key

5	To edit holiday info currently displayed on LCD	Press **EDIT** key	Date field blinks
6	To change the value of blinking field	Press **UP** key	Value of blinking field changes
7	To move to the next field	Press **EDIT** key	Next field blinks

*Similarly, all fields can be edited. After last field (cross/tick) is set, changes are saved and control is back to VIEW mode.

| 8 | To exit from holiday settings | Press **MENU** key. | 'MENU:' '> HOLIDAY' |
| 9 | To exit from the menu | Press **MENU** key again. | Default display as 'HH:MM:SS' 'DD/MM/YY [DAY]' |

*Note:
1. Pressing MENU button anywhere in the Menu takes the settings one step back by automatically saving the current changes.
2. If settings are left incomplete (No key is pressed for 2 minutes), whatever setting done so far will automatically get saved after 2 minutes and setting mode exits.
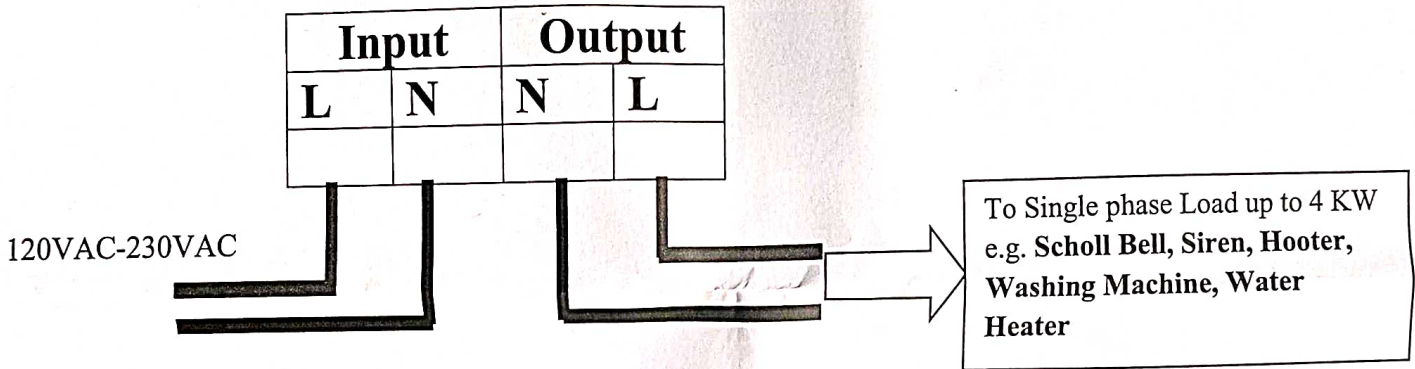
7. To Select Timer Mode: School Bell Timer / Multi Event Timer

Step	Operation	Key	Display
1	To Select School Bell Mode	**Press and hold (UP Key)** for 6 seconds.	"Timer Mode: School Bell " is displayed
2	To Select Multi Event Mode	**Press and hold (UP Key)** for 6 seconds.	"Timer Mode: Multi Event" is displayed

Wiring Guide:

- **Terminal Connections For Single phase load up To 4 kw**

Input		Output	
L	N	N	L

120VAC-230VAC

To Single phase Load up to 4 KW e.g. **Scholl Bell, Siren, Hooter, Washing Machine, Water Heater**

- **Terminal Connection For 3 Phase Load**

Input		Output	
L	N	N	L

Phase(R/Y/B)

N

3 Phase Mains Power

R Y B N

Contactor Coil

To 3 Phase Load

3Phase Industrial HVAC, Water Pump