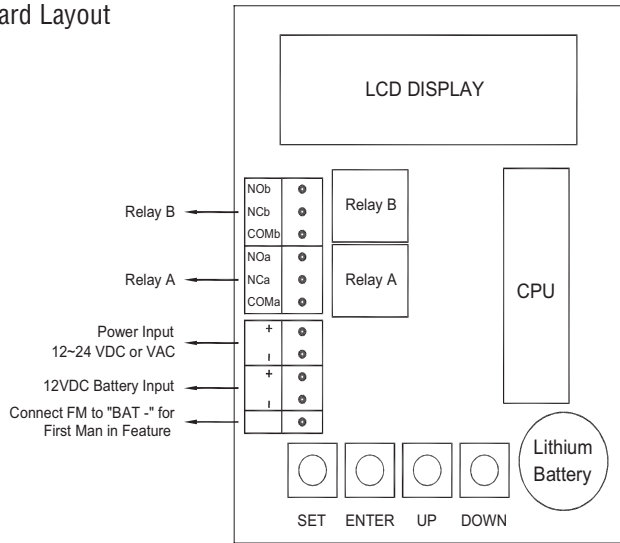








*In or Out... we make it Easy!®*

## INSTRUCTIONS For TD365 Timer Programming

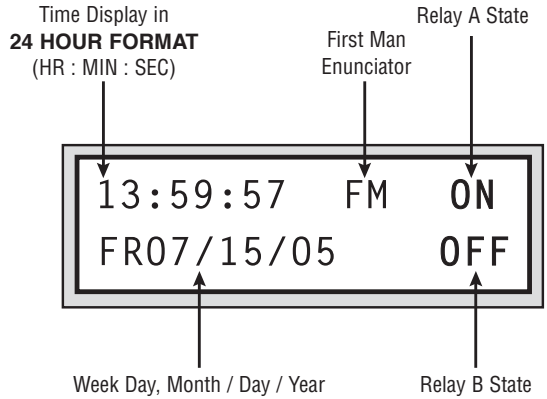
Fig. 1 Timer Board Layout



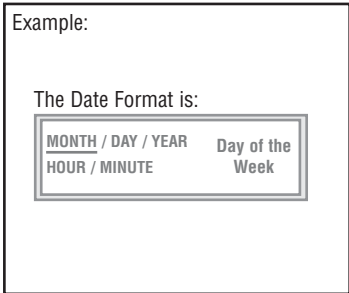
### Key Functions

- SET**  Enters system setup main menu and backspaces in submenu
- ENTER**  Enters submenu or accepts current value above underline cursor
- UP**  Changes main menu selection or value above underline cursor
- DOWN**  Changes main menu selection or value above underline cursor

## Main Status Window



## Main Menu Windows



### SET SYSTEM TIME

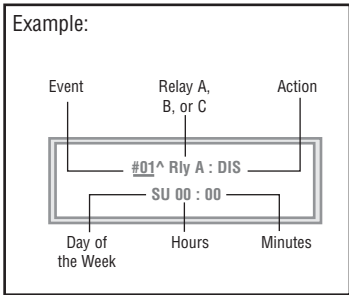
Use the **UP / DOWN** keys to change the value, **ENTER** to accept value and move to the next item to be changed. **SET** will allow you to backspace to change previously set values. After the value for minutes has been input, pressing **ENTER** will return you to the Main Menu Window and you can continue programming other Sub Menus or press **SET** to return to the Main Status Window.

Up  Down 

## SET USER EVENTS

Enter

Set User  
Events Sub  
Menu

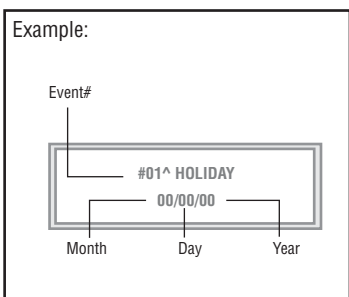


Up   Down

## SET HOLIDAY TIME

Enter

Set Holiday  
Time Sub  
Menu



Up   Down

## SET USER EVENTS

**UP / DOWN, ENTER** and SET perform the same function for all sub menu windows.

**Relay A** and **B** control the respective relays and **C** causes both relays to operate simultaneously.

The Actions that can be performed on a relay are:

**DIS** = Disable, this function disables the relay

**ON** = This function will energize the relay at the specified time

**OFF** = This function will de-energize the relay at the specified time

**PL** = Pulse, this will pulse the relay for up to 40 seconds

Days of the week include SU for Sunday through to SA for Saturday, BK for block events and HOL for holidays. The time is set in 24 hour format and is the time that the event takes place.

## SET HOLIDAY TIME

The Holiday feature prevents any event from occurring on that date. *Note: If a relay is "ON" at the start of a holiday it will remain on for the day.*

Holiday Dates will over-ride all Regular Daily Events and Block Events whether or not a USER EVENT was programmed with a "Holiday"

To reset a holiday, set the month to "00", this invalidates the holiday.

## Main Menu Windows *Continued*

### SET BLOCK EVENTS

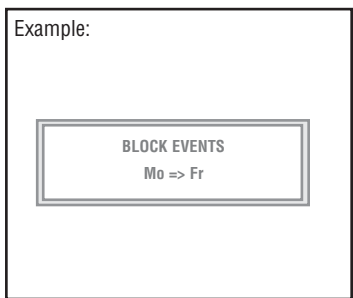


Set Block  
Events Sub  
Menu

### SET BLOCK EVENT

**Block Events** will occur during the days of the week specified in Block Events programming. e.g. If the Block Event is set Mon => Fri, this will cause the relay to react every day of the week between Monday and Friday when BK is selected for day of the week in the "Set Users Events" submenu.

Example:



Up   Down

### SET RELAY STATE



Set Relay  
State Sub  
Menu

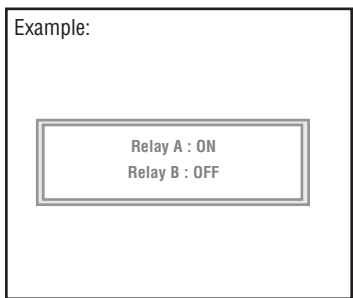
### SET RELAY STATE

**UP / DOWN** changes the relay state and **ENTER** accepts the change. This feature allows you to put the relay into the proper state when **BLOCK** programming is used.

The relays only change state when an event occurs, not during a timed event.

**ENTER** must be pressed 3 times to accept a state change.

Example:



Up   Down

*Note: Pressing the UP/DOWN Keys will change the menu options.  
Pressing the ENTER key will activate features that have been selected.*

## SET TIME MODE

Enter

Set Time  
Mode Sub  
Menu

Example:

TIME MODE : ST  
(or DS, or USDS)

## SET DAYLIGHT SAVINGS

This sub-menu will change between Daylight Savings (DS), Standard Time (ST) and US Daylight Savings (USDS)

Daylight Savings Time (DS) begins at 2 am on the first Sunday of April and ends at 2 am on the last Sunday of October.

*For example: The clock moves forward at 1:59 am to 3:00 am on April 3, 2005 and falls back from 1:59 am to 1:00 am on October 30, 2005.*

Up  Down

## CLEAR MEMORY

Enter

Set Clear  
Memory  
Sub Menu

Example:

CLEAR MEMORY ?

## SET CLEAR MEMORY

This menu will clear all programmed events and holidays.

Pressing **ENTER** from this menu will clear the program memory. The date and Time will not change.

Up  Down

**Continue to Press SET until you return to the Main Status Window.**

---

## First Man Feature ( Relay A, ONLY)

The First Man feature will prevent any programmed events from occurring. If a relay is “ON” when FM is enabled it will remain “ON” until FM is disabled, at that time the relay will resume normal operation and the last scheduled event will occur

When the FM terminal is connected to “BAT -”, the “First Man in” feature is enabled.

## Notes and Important Considerations:

Relays in the “ON” state at a power failure will still be in the “ON” state when power is returned. Events occurring during a power failure will not occur except if a backup battery is attached to the Battery Terminals, then normal operation will occur.

The event detection only happens at the beginning of each “MINUTE” and when the system is not in programming mode. e.g. Any event will not happen while system is in programming mode.

## Event #'s

Block Events and Regular Daily Events have the same priority. Regular Daily Events or Block Events with a higher event number will over-ride the Regular Daily Event or a Block Event with a lower event number even if both event times are set the same.

### Examples:

- Regular Daily Event (event number 10) set for Sunday at 09:00 with both relays set to “ON”.
- Regular Daily Event (event number 20) set for Sunday at 09:00 with relay A “OFF”.
- Result: On Sunday at 09:00, relay A is “OFF” and relay B is “ON”.
- Holiday Events will over-ride Regular Daily Event and Block Event.
- Holiday Events will prevent events occurring even if NO daily or block event is programmed.
- Holiday Events with a higher event number will over-ride Holiday Events with a lower event number even if both event times are same.

## Daylight Savings

Daylight savings occurs on the first Sunday in April and the last Sunday in October.

With the Daylight Savings mode “ON”, any event set between 02:00 and 02:59 on the first Sunday in April would never occur because the clock moves forward to 03:00 from 01:59 and skips all the time in between.

## Lithium Battery

If the power fails and the lithium battery is missing or discharged then only the date and time will be erased. The Lithium battery should be changed every two years to prevent an accidental loss of program memory. This should be done with the power applied to prevent data loss.