



## INTERMATIC FM1D14 Series Time Switch User Guide

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### INTERMATIC FM1D14 Series Time Switch





## **WARNING** Risk of Fire or Electric Shock

- Disconnect power prior to installation.
- Connect FM1D14 wiring in accordance with all applicable national and local electrical code requirements.

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## Specifications

### Input

- 12 VDC (FM1D14-12)
- 24 VAC and VDC, 50/60 Hz (FM1D14-24)
- 120-277 VAC, 50/60 Hz (FM1D14-AV)

### Output

#### NO Contact

**General Purpose:** 15 A, 277 VAC

**Tungsten:** 1000 W, 120 VAC

**Ballast :** 8 A, 277 VAC

**Pilot Duty:** B300

**Electronic Ballast:** 4.9 A, 120 VAC

**Motor:** 10 FLA, 60 LRA @ 250 VAC; ½ HP, 120 VAC; 1 HP, 250 VAC

#### NC Contact

**General Purpose:** 15 A, 277 VAC

**Resistive:** 12 A, 24 VDC

**Ballast :** 8 A, 120 VAC

**Motor:** 10 FLA, 60 LRA @ 250 VAC; ½ HP, 120/240 VAC

**Operating Temperature:** -40° F to 135° F (-40° C to 55° C)

**Carry-over:** 2500 hours fully charged

## Description

This manual provides installation and programming instructions for the FM1D14 series timer.

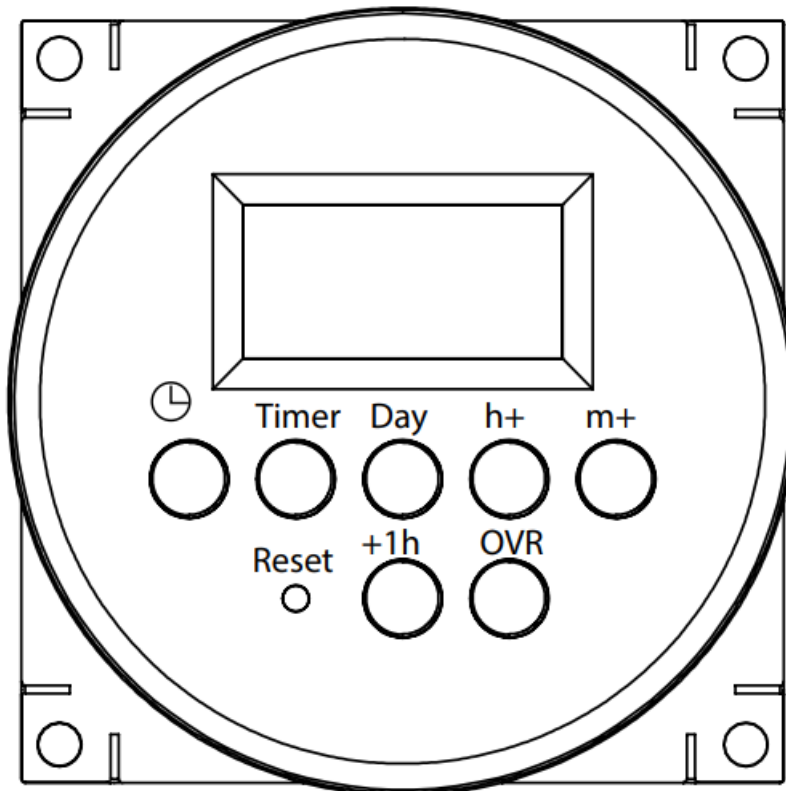
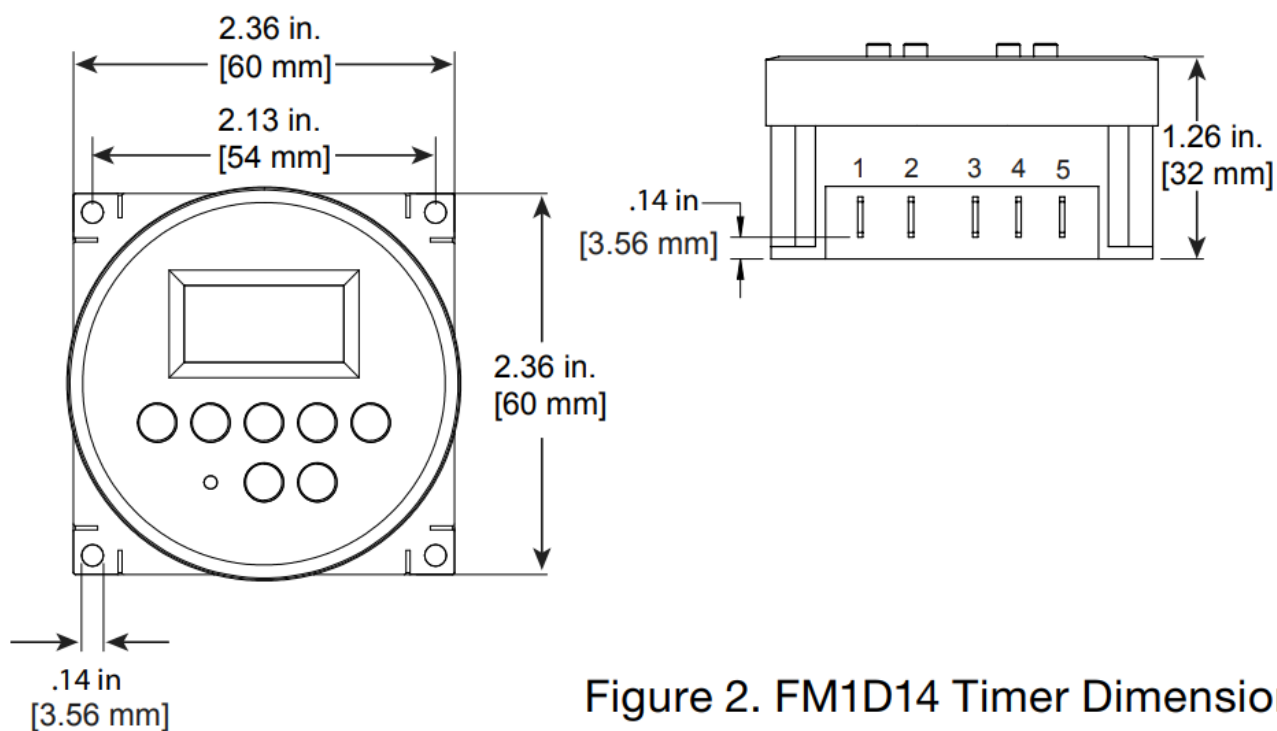


Figure 1. FM1D14 Timer

## Mounting the FM1D14 Series Timer

The standard FM1D14 timer can be surface mounted inside a panel or flush mounted. Mount the timer as required. Refer to the dimension drawing in **Figure 2**.



### Connecting the FM1D14 Series Timer Wiring

Follow this procedure to connect the FM1D14 timer wiring.

1. Make sure supply power is disconnected.
2. Check input and output ratings marked on timer to verify the product is suitable for your supply voltage, load, and application.
3. Connect the FM1D14 wiring. See **Figure 3** for reference.

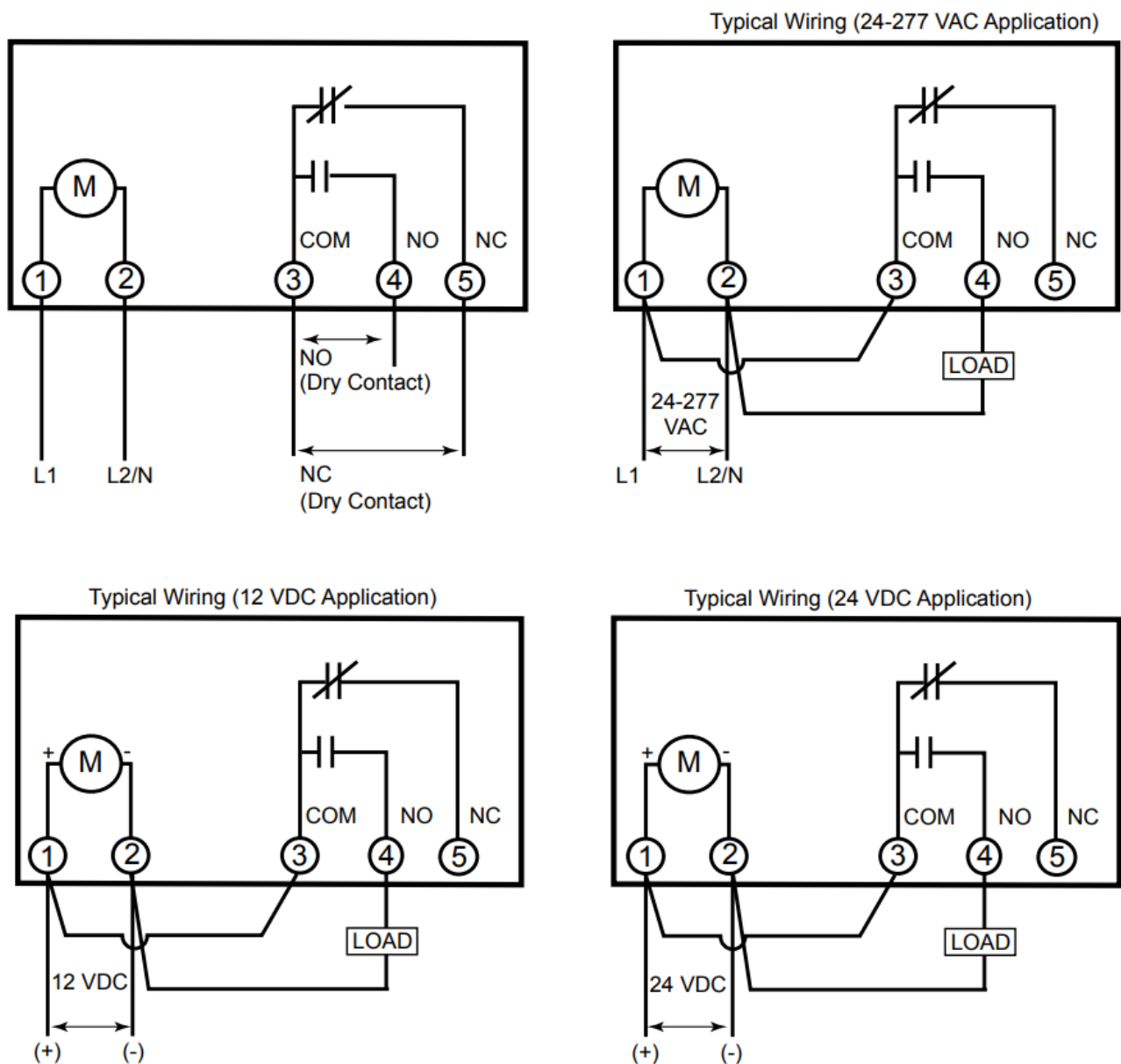



Figure 3. Connect FM1D14 Wiring (Front View Shown).



## Setting the Time of Day

Follow this procedure to set the time of day and day of the week.

1. Press and release the Reset button with a blunt object to reset the unit. The timer screen flashes.
2. Press and hold  and h+ simultaneously to access the 12:00 AM screen.
3. Take one of these actions.

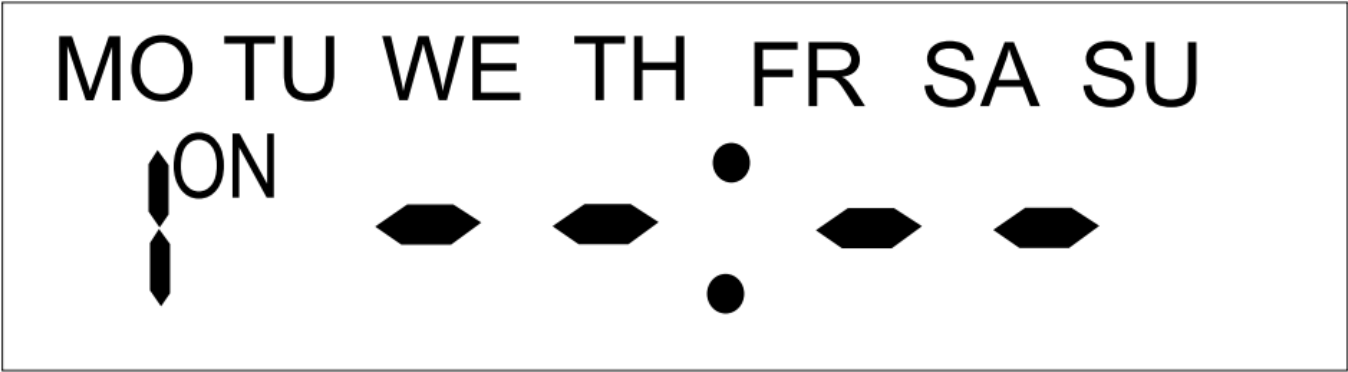
If...	Then...
Your time zone currently is in Daylight Saving Time,	Press the <b>+1h</b> button. Go to step 4.
Your time zone is not in Daylight Saving Time,	Go to step 4 to set the current time.

4. Press and hold  and press h+ repeatedly until you advance to the current hour.

5. Press and hold  and press m+ repeatedly until you advance to the current minute.
6. Press and hold  and press Day repeatedly until you advance to the current day.

Programming Events

To set ON/OFF event pair, set ON event and then repeat procedure to set OFF event. The timer enables up to 7 ON/OFF event pairs.




1. Press the Timer button. Dashed lines appear to indicate no event is set for event 1.
2. Press Day to select the days of the week for the ON event.

**NOTE:** To set the ON event:

ON a Specific Day	Select: The desired day
Every Day of Week	Select: <b>MO, TU, WE, TH, FR, SA, SU</b>
Every Weekday:	Select: <b>MO, TU, WE, TH, FR</b>
Every Weekend:	Select: <b>SA, SU</b>
Monday through Saturday	Select: <b>MO</b> through <b>SAT</b>
Monday, Wednesday, Friday	Select: <b>MO, WE, FR</b>

3. Press h+ to scroll to the desired hour for ON event.
4. Press m+ to scroll to the desired minute for the ON event.
5. Press Timer to advance to the OFF event screen.
6. Press Day to select the days of the week for the OFF event.
7. Press h+ to scroll to the desired hour for the OFF event.
8. Press m+ to scroll to the desired minute for the OFF event.

Take one of these actions.

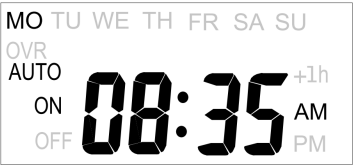
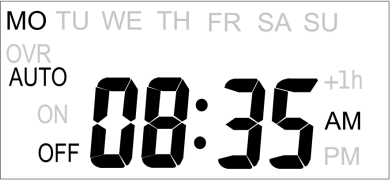


If...	Then...
You need to program another ON/ OFF event pair,	Press Timer to advance to the next event ON screen and repeat steps 2 through 8.
All the required ON/OFF events are programmed,	Press  to return main screen. The procedure is complete.

**NOTE:** If events include or intersect with each other, each ON/OFF event can be independently executed at the setpoint.

**NOTE:** If an ON event and OFF event occur at the same time, the timer will run the OFF event.

## Daily Operation

Below is an overview of the different operation modes for FM1D14.

Mode	Timer Display	Description
Auto ON		Appears when an ON setpoint has been triggered
Auto OFF		Appears when an OFF setpoint has been triggered
OVR ON		Indicates relay has been overridden to ON status
OVR OFF		Indicates relay has been overridden to OFF status


**NOTE:** To execute an ON/OFF status override, press the OVR button on the timer to override an ON or OFF status. The override remains active until the next programmed event.

## Modifying an Event

Follow this procedure to review or modify an event.


1. Press Timer to scroll to ON or OFF event you want to modify.
2. Take one of these actions.

If you want to modify the...	Then...
Days of the week for ON/OFF event,	Press <b>Day</b> repeatedly to scroll to desired days of the week Go to step 3.
Hour for ON or OFF event,	Press <b>h+</b> to scroll to desired hour Go to step 3.
Minute for ON or OFF event,	Press <b>m+</b> to scroll to desired minute Go to step 3.

- Repeat steps 1 and 2 as needed to modify additional events.
- When all the desired events are modified, press  to confirm event settings and return to the time of day screen.


## Deleting an Event

Follow this procedure to delete an event.

- Press Timer to scroll to ON or OFF event you want to delete.
- Press OVR to delete the event. Dashed lines appear in place of the time to indicate the event is deleted.  
**NOTE:** If necessary, repeat this procedure to delete both ON and OFF settings for the event.
- When the modifications are complete, press  to return to time of day screen.

## Retrieving an Event

The timer enables deleted events to be retrieved. All deleted events can be retrieved until a new event is programmed in place of event.

- Press Timer to scroll to the ON/OFF event you previously deleted.  
Dashed lines appear in place of the event time.
- Press OVR to retrieve deleted event. The event ON or OFF time replaces the dashed line indicating that the event is retrieved.  
**NOTE:** If necessary, repeat this procedure to retrieve both ON and OFF settings for the event.
- When the modifications are complete, press  to return to time of day screen.

## Adjusting Daylight Saving Time

Press +1h button to add the Daylight Saving Time hour to the current time or remove the hour to return to standard time.

**NOTE:** Do not perform this procedure if your area does not use Daylight Saving Time.

## Resetting the Timer

In case of a timer malfunction or to delete all previous settings, the unit can be reset.  
To reset the timer, use a blunt pointed object to press Reset as shown in **Figure 4**. The timer resets and deletes all the settings in the unit.



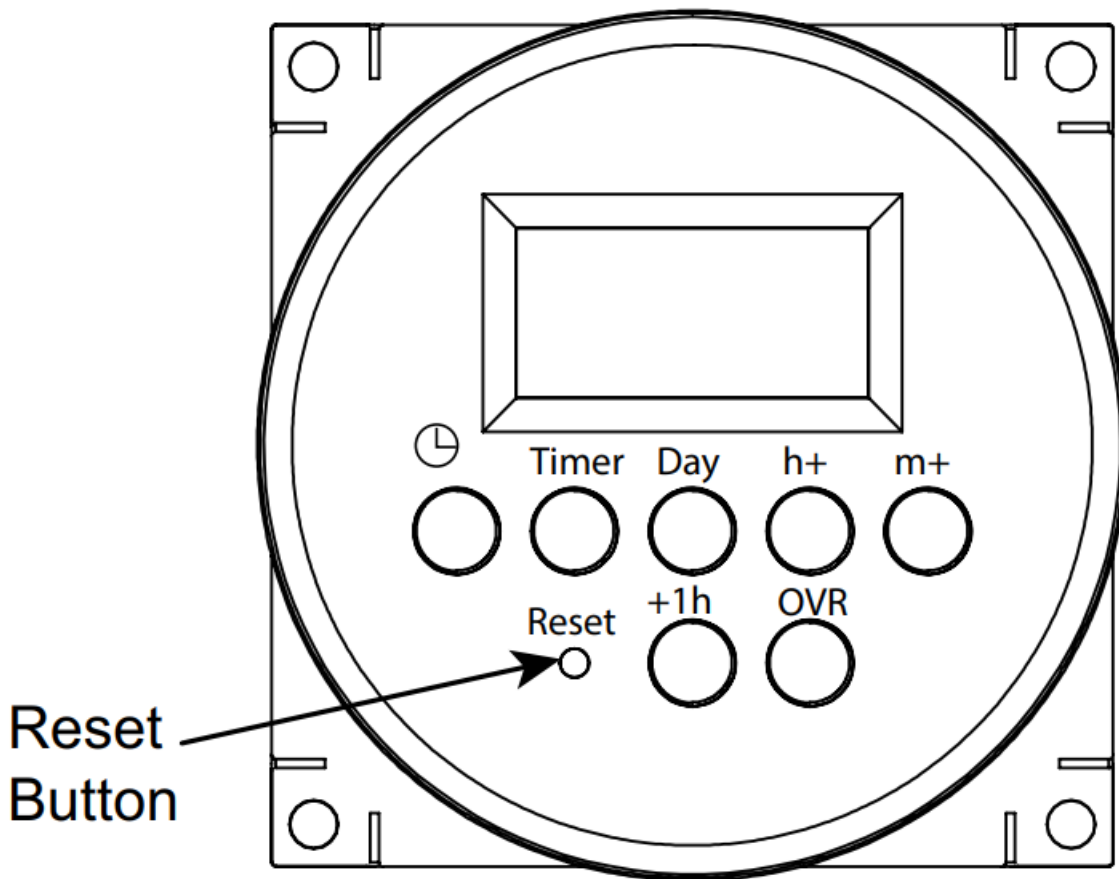


Figure 4. Reset Button

### Overview of FM1D14 Power Loss Functions

In the event of a power loss, the FM1D14 does the following:

- Relay will be in the OFF state.
- Upon power restore, relay will go to the current programmed state.

### LIMITED WARRANTY

Warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased or (b) completing a warranty claim online at [www.intermatic.com](http://www.intermatic.com). This warranty is made by: Intermatic Incorporated, 1950 Innovation Way, Suite 300, Libertyville, IL 60048. For additional product or warranty information go to: <http://www.intermatic.com> or call 815-675-7000..

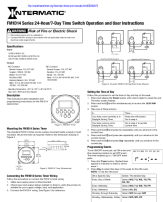
### Customer Support

INTERMATIC INCORPORATED  
LIBERTYVILLE, ILLINOIS 60048  
[www.intermatic.com](http://www.intermatic.com)



<http://waterheatertimer.org/Intermatic-timers-and-manuals.html#GM40AVE>



## Documents / Resources

	<p><a href="#">INTERMATIC FM1D14 Series Time Switch</a> [pdf] User Guide FM1D14-12, FM1D14-24, FM1D14-AV, FM1D14 Series Time Switch, Time Switch, Switch</p>
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## References

-  [Intermatic timers and manuals](#)
-  [intermatic.com](#)

Manuals+.