FT-200 Programmable Timer (Seven Day - Multi-event with FPI*)

Operating Voltage

6-24 volts AC/DC

Operating Current

Voltage	6VDC	12VDC	24VDC
Relay Inactive	3mA	14mA	16mA
Relay Active	26mA	40mA	42mA

Program Memory Backup

Internal 10-year Lithium Battery will provide clock memory backup for 6 months continuously. The battery will not provide relay transfer on power loss.

Output

Single Pole, Double Throw (Form "C")
Relay Hold In Time Adjustment: 1-60 Seconds
Contact Rating 1A @ 26VDC
0.5A @ 115VAC

Output Format

Single Pulse - Relay activates at ON time, holds for time period set by delay adjustment, then deactivates. The OFF time has no effect on the output relay activation, but must be programmed in.
Double Pulse - Relay activates for time period set by delay adjustment, then deactivates, for both the ON and OFF times
Interval Time - Relay activates at ON time, holds, and deactivates at OFF time.

Time Format

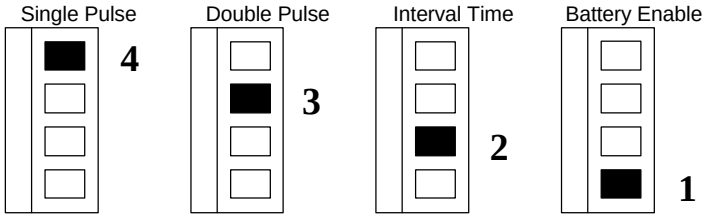
24 hour (military) format. RESET ◎ button resets ALL clock programming.

Programming Capability

84 weekly events can be handled by the FT-100 Timer. Six ON timers and six OFF timers are programmable for daily, weekly, or individual day operation. Block time periods are also provided to control several days with a single programming input. The provided blocks are: Monday thru Friday; Saturday and Sunday; Monday thru Saturday.

Mode Set Dipswitch

To enable function: Set indicated switch ON



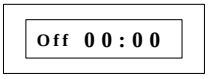
*First Person In (FPI)

Accepts Normally Closed Switch or Solid State Activation for "Authorized Only" operation. Provides freedom from the necessity of Holiday programming. This requires a momentary loss of ground at FPI Terminal to transfer the relay.

Time Set

Activate the Memory Backup Battery by switching mode set dipswitch 1 to ON.

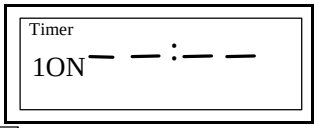
The Liquid Crystal Display (LCD) will come on showing



Apply system power to the FT-200 unit.
Press and **HOLD** the leftmost button marked_____ ◷
To set HOURS, use the button marked_____ h+
To set MINUTES, use the button marked_____ m+
To set DAY OF THE WEEK, use the button marked____ Day
Release the button marked_____ ◷

ON/OFF Times

Press and release the button marked Timer once to enter program mode.
The LCD will show



Pressing the Timer button a second time will set the unit to timer 1 OFF.

This sequence will continue for 6 ON timers and 6 OFF timers for a total of 12 timers

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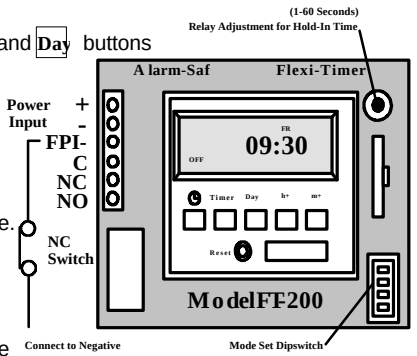
To Program

an ON or OFF instruction for a particular day and time:

Select the desired timer: 1 thru 6 ON; 1 thru 6 OFF
Program the desired time and day using the h+ , m+, and Day buttons

If a DAY is NOT selected, the action will occur EVERY day.

NOTE: The Day blocks are accessed by stepping the Day button



To Program

an ON or OFF instruction for all week:

Select the desired timer: 1 thru 6 ON; 1 thru 6 OFF
Using the h+ and m+ buttons, program the desired time.

To Program

an ON or OFF instruction for a block of time:

Select the desired timer: 1 thru 6 ON; 1 thru 6 OFF
Using the h+ and m+ buttons, program the desired time
Using the Day button, program the desired block: Mon-Fri; Sat-Sun; Mon-Sat

CAUTION: An ON timer will only provide an output if the clock is OFF prior to the ON instruction. If the ON and OFF timer are programmed for the same time, the OFF time will take priority.

To Exit Program

Press and release the button to exit program mode

Select Output Format

Select one: Single Pulse, double pulse, or interval time, and adjust relay hold time 1-60 seconds.
Note: If no selection is made, relay will **NOT** activate.

Holidays

There are two methods to compensate for holidays with the FT-200

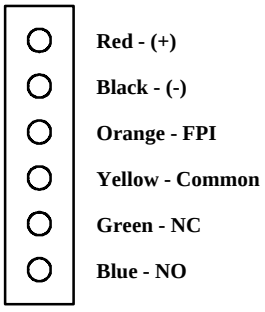
1. Override Command: Manually program an OFF instruction into an unused timer for the same time as the normal ON instruction. When two commands are programmed for the same time, the OFF instruction will take priority.
2. First Person In (FPI): Allows the OFF instruction to be delayed until the manual operation of a key switch, keypad, relay, etc. The FPI terminal is held at negative and momentarily opened upon arrival at premises.

Example

A security system disarms at 07:00 and arms at 17:00 each day. If a condition arises to prevent the employees from arriving on time, the premises would be unprotected after 07:00. This can be avoided by use of the FPI feature because the disarming of the system would not take place until a manual keypad or keyswitch were activated. Disarming of the system would therefore require two situations to occur:

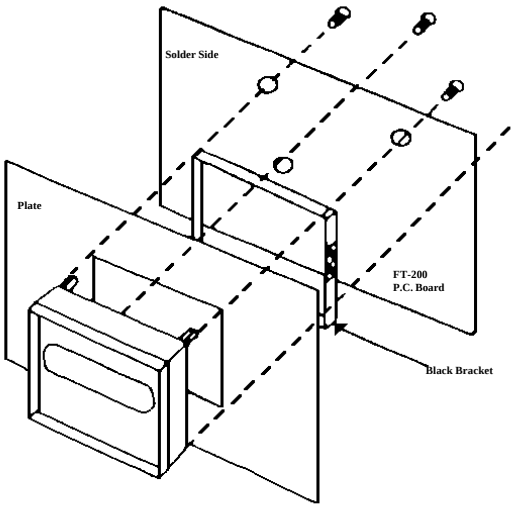
The FT-200 to signal a disarm should occur
The FPI input to be activated

This feature ELIMINATES the need for holiday programming and compensates for late arrival or holiday NO arrival



Daylight Savings Time

The clock must be adjusted twice a year to compensate for time changes (only the time, not the program)



To convert the FT-200 Flexi-Timer for flush-mount use:

1. Detach clock and mounting standoffs from P.C. board and save.
2. Unplug the clock (cable connector) from the P.C. board. NOTE: The connectors have a locking mechanism. Use a screwdriver and pry the tab on top of the connector up while gently pulling on the cable connector.
3. Install the clock module in the plate by inserting thru the front, then push the black bracket over the module and up tight against the plate. NOTE: The bracket has two flexible tabs that face towards the plate.
4. Place the solder-side of the P.C. board in position against the clock standoffs and snap the standoffs into their corresponding holes.
5. Push the plug (cable connector) into the P.C. board connector until the tab on the connector locks them together.

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