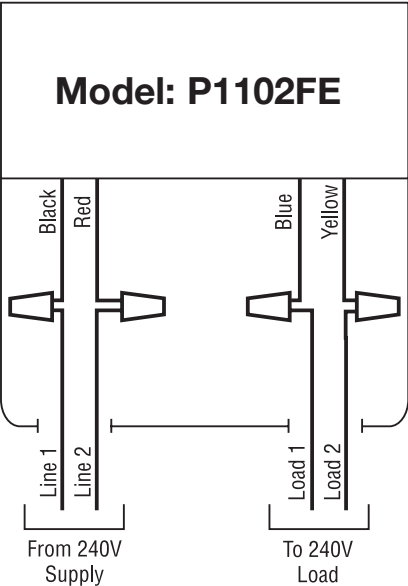
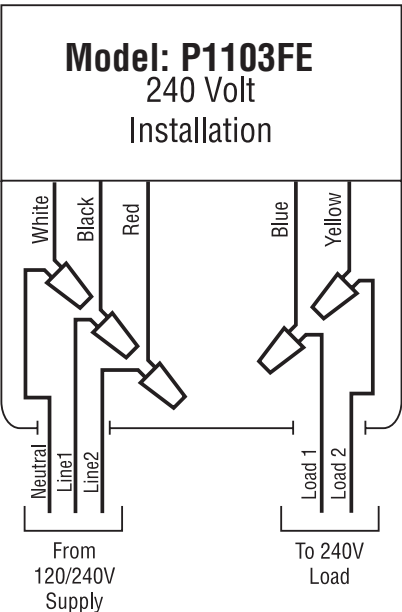
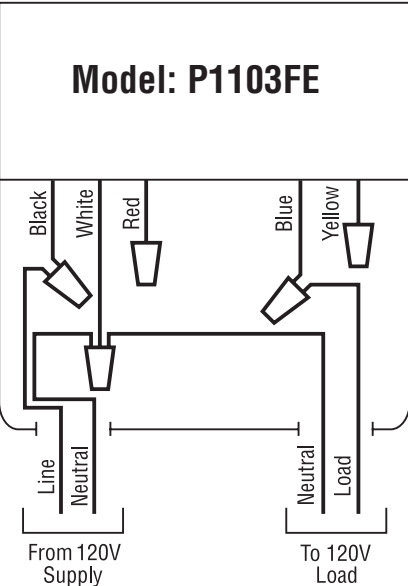


FIELD WIRING



Note:

Ground connections are not shown.



ONE YEAR LIMITED WARRANTY

If within the warranty period specified, this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it, at its sole option, the unit free of charge. This warranty applies only to the original purchaser and is not transferable. This warranty does not apply to: (a) damage caused by accident, abuse, mishandling, dropping, acts of God, or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart, or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state. INTERMATIC INCORPORATED WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY MODIFIED TO EXIST ONLY AS CONTAINED IN THIS LIMITED WARRANTY, AND SHALL BE OF THE SAME DURATION AS THE WARRANTY PERIOD STATED ABOVE. This warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing postage prepaid to the nearest authorized service center listed. Please be sure to wrap the product securely when mailing to avoid shipping damage. This warranty is made by: Intermatic Incorporated/After Sales Service, 7777 Winn Rd., Spring Grove, IL 60081-9698/815-675-7000 <http://www.intermatic.com>

Because of our commitment to continuing research and improvements, Intermatic Incorporated reserves the right to make changes, without notice, in the specifications and material contained herein and shall not be responsible for any damages, direct or consequential, caused by reliance on the material presented.

INTERMATIC INCORPORATED, SPRING GROVE, IL 60081-9698
<http://www.intermatic.com>

INTERMATIC®
P1000 SERIES
TIME CONTROLS

INSTALLATION
OPERATION &
SERVICE MANUAL

Electronic Time Controls In Outdoor Safety Enclosure
SUITABLE FOR POOL/SPA EQUIPMENT CONTROL APPLICATIONS

ELECTRICAL RATINGS:

Model P1102FE: 20 A. Resistive, 3 HP - 240V. 50/60 Hz Double Pole Single Throw (DPST)

Model P1103FE: 20 A. Resistive, 120-240V., 10 A. Tungsten 120V.,
1.5 HP - 120V., 3 HP - 240V. 50/60 Hz Double Pole Single Throw (DPST)

DANGER! TO AVOID RISK OF INJURY:

- ...do not permit children to operate the Control Unit or use the Pool/Spa unless they are closely supervised at all times.
- ...test GROUND FAULT protection regularly. If it fails to reset, DO NOT USE THE POOL or SPA!
Contact a qualified service technician.
- ...always disconnect electricity before servicing this control or the equipment connected to it.

IMPORTANT SAFETY INSTRUCTIONS

When installing and operating this Product and other associated equipment, basic safety precautions should always be followed, including the following:

1. This Control must be installed by a qualified electrician, according to the National and Local Electrical Codes.
2. USE COPPER CONDUCTORS ONLY. If applicable, install this Control not less than 5 feet (3 meters in Canada) from inside edge of pool or spa.
3. Do not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors.
4. For grounding of the installation, refer to Article 250 and 680 of the National Electrical Code or Article 68 or the Canadian Electrical Code.
5. This Control should not operate any equipment which would cause bodily injury or property damage should it be activated unexpectedly.
6. Always disconnect electricity at main panel before servicing this Control or the equipment connected to it.

READ, FOLLOW AND SAVE THIS INSTRUCTION MANUAL

GENERAL INFORMATION

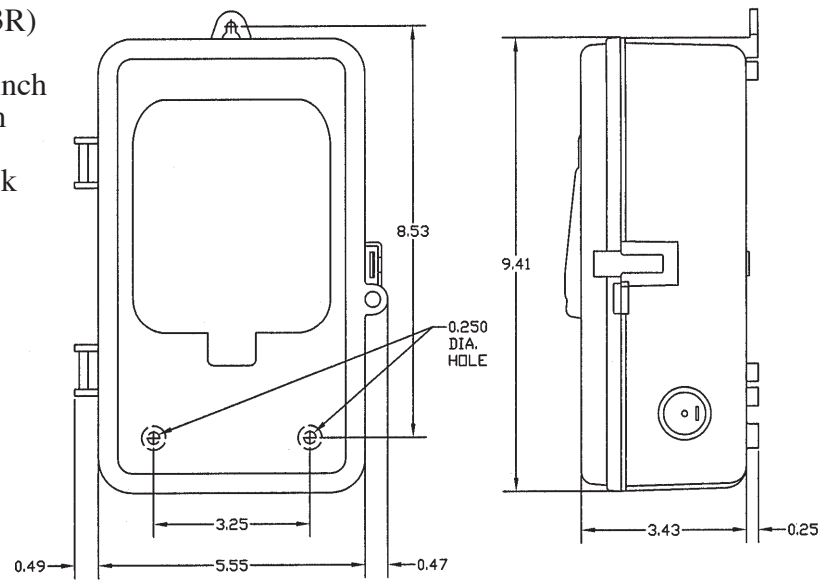
These Time Controls in Safety Enclosure are specially suited for installations where the automatic operation of the pool/spa filter pump requires occasional interruption/suspension by someone other than a qualified service professional. The unique “door within the door” design offers three distinct features not found on typical industrial controls. First, it keeps the wiring compartment locked-up, accessible only to the qualified/authorized service professional. Second, it allows safe and convenient operation of the connected equipment by anyone, and third, in case of emergency, it will allow immediate access to the manual operation/disconnect of the equipment. Other features of the enclosure are the non-corrosive nature of the material it is made from, the gasketless, yet rain tight construction and the self-closing design of the access door.

The electronic timers are designed to control electric appliances and equipment on a 24 hour schedule. They can turn ON and OFF the connected load up to eight times daily and repeat the program daily. The timers are completely enclosed and, a replaceable lithium battery will hold-up memory for a minimum of 3 years.



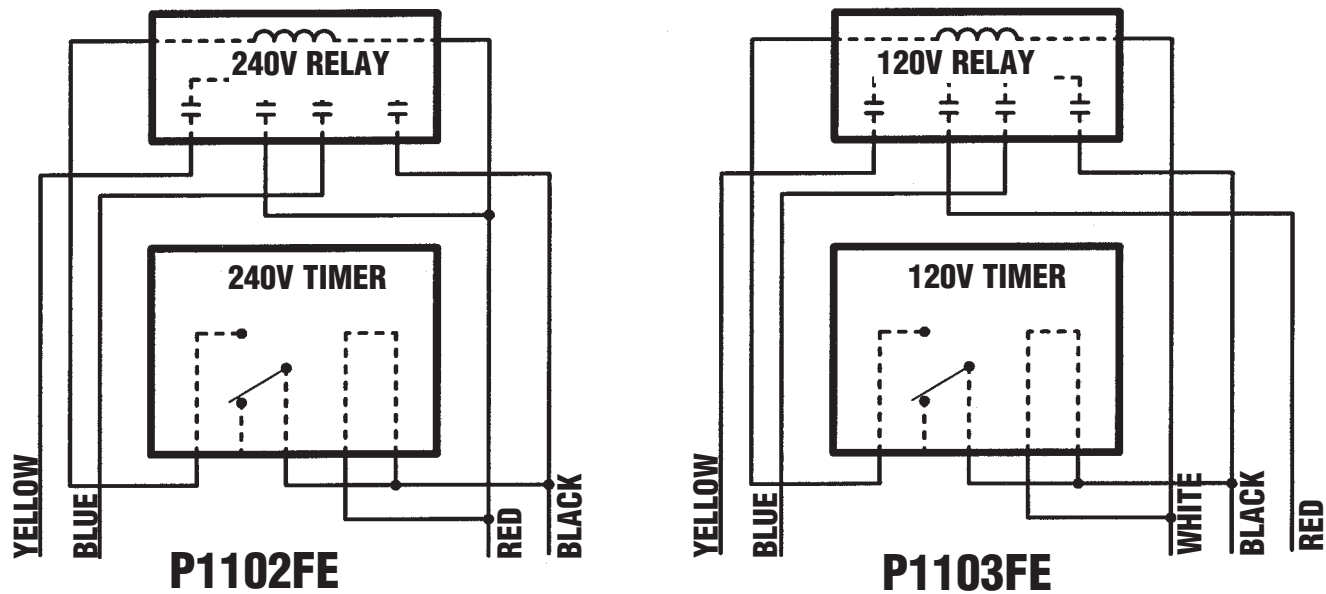
SPECIFICATIONS

Enclosure: Indoor/Outdoor Type (NEMA 3R)
Non-corroding, UV resistant thermo plastic
featuring 3 point mounting and (5) 1/2-3/4 inch
concentric knockouts; one each side; two on
the bottom and one on the back.
Timer: Microprocessor based 24 hour clock
Power Consumption: 8VA
Battery Reserve: Type CR2032 1.5V.
Lithium
Battery Life: 3 Years Min.
Minimum Interval: 1 Minute
of Programming Periods: 8 ON / 8 OFF



INSTALLATION AND INTERNAL WIRING

- Make sure the intended load is within the capacity of the Timer, see ratings on page 1.
1. Select the proper location (see Important Safety Instructions on page 1) for the proper enclosure of your choice and install it on a vertical surface or other support, using hardware suitable for the purpose.
 2. Prepare the necessary conduit runs as required by the installation layout and pull-in the specified conductors.
 3. Install timer mechanism in enclosure and follow wiring diagram on page 4, make wire connections as shown.
 4. Turn ON power and test installation, using the SELECT button on face of the Timer. Replace wiring compartment cover, make sure the installation is secure and raintight.
 5. Set Timer, see Operating Instructions on page 3.



SETTING / OPERATING INSTRUCTIONS

Programming Instructions

To Set or Change the Time of Day: To clear entire memory, press key. Hold down the CLOCK key while pressing either the HOUR or MINUTE keys. Continue pressing until the desired number is shown. Then simply lift finger off the CLOCK key to set.

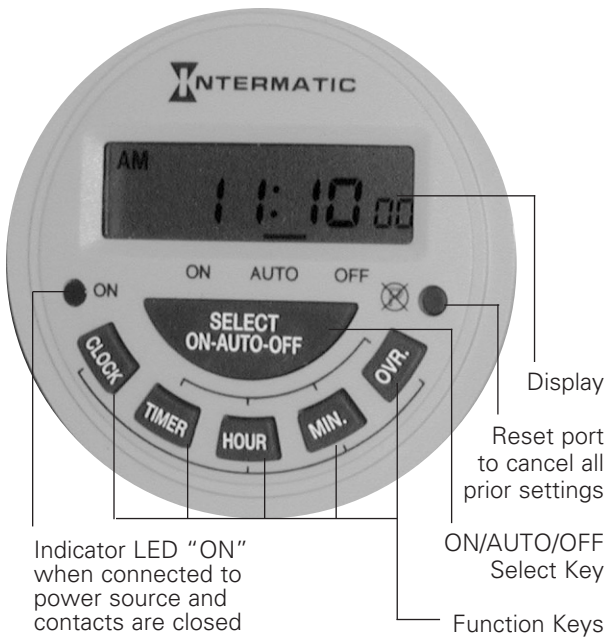
To Set Program (ON/OFF times): Press TIMER key once to enter into program mode. Display will show “1 ON — — —”. Press the HOUR key and then the MINUTE key to select the desired first ON time. Press TIMER key once. Display will show “1 OFF — — —”. Repeat previous step to select the desired first OFF time. Repeat the entire sequence to complete up to eight total ON/OFF times as desired. When programming is done, press the CLOCK key then the SELECT key repeatedly until the indicator bar is above the word “AUTO”.

To Review Program: Press TIMER key repeatedly. When done, press CLOCK key to return to the time of day.

To Cancel/Change Part of the Program: Press TIMER key repeatedly until the particular ON or OFF time appears. Set new ON or OFF time. (See: To Set Programs)

To Override the Automatic Operation one time: Press OVR. KEY.

NOTE: Timer will resume automatic operation with the next opposite setpoint.



To Override Automatic Operation Permanently: Press SELECT key to move indicator bar to the desired ON or OFF position. **Note:** Timer will not resume automatic operation until indicator bar is repositioned above the word AUTO.

TROUBLESHOOTING

Symptom	Possible Cause(s)	Corrective Action
Blank Display	Discharged battery	Replace battery
	Defective timer	Replace timer
Timer will not respond to programming	Memory is full	Press to clear memory
Timer will not function as programmed	Timer is not in auto	Press SELECT key and move indicator bar over to AUTO
Timer is ON at all times	Timer is in ON mode	See above
	Defective timer	Replace timer
	Defective relay	Replace relay