**P1353ME Operating instructions**

1. Press PROG Key to cycle through menu options.
2. Press UP and DOWN arrow keys to change program settings.
3. Press ENTER key to save changes and exit programming mode.
4. Press ON/OFF keys to manually turn devices ON or OFF.

For more details, please refer to instruction manual booklet

**NOTES:**
1. Grounding connections are not shown but must be provided. Refer to the National Electrical Code for details.
2. Diagrams above are only two of the many variations this Panel can accommodate.

**LIMITED ONE YEAR 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, free of charge. This warranty is extended to the original house hold purchaser only and is not transferable. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to unauthorized repair, opened, tampered with or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product; (e) sealed lamps and/or lamp bulbs, LEDs and batteries; (f) the finish on any portion of the product, such as surface rust or weathering, as this is considered normal wear and tear; (g) transit damage, initial installation, removal costs, or reloading costs. Intermatic Incorporated will not be liable for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. 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. Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Warranty service is available by mailing postage prepaid to: Intermatic Incorporated/After Sales Service, 7777 Winco Rd., Spring Grove, IL 60081-9698.

**Metallic**

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.

**GENERAL INFORMATION**

Many of today’s energy efficient pools and spas utilize the advantages of a single electrical panel, containing all the necessary controls for the safe, efficient and automatic operation of the pool/spa equipment. In addition, this panel can also be used to control any outdoor equipment, sign or pump within its rated capacity.

As an option this all-weather enclosure contains the heavy-duty, industrial grade P1353ME Digital Time Clock. It also comes standard with a breaker base for up to eight full size circuit breakers. In addition, it has provisions to install wiring devices inside, as well as a switch or GFCI receptacle on the outside.

The P1353ME Digital Time Clock (optional) is designed to operate any pump, within its rated capacity. However, if protection to prevent dry start is required by the pump manufacturer, it must be provided in addition to this control. Contact pump manufacturer if not sure and/or for more details.
1. Remove the #10 hex head screws from the outside back of the enclosure and attach mounting brackets.
2. Select the proper location for the control panel and hang enclosure on a flat vertical surface or other support. When mounting the enclosure, be sure to use hardware capable of supporting its weight.

NOTE: The Panel will accept the main feed, through the 1, 1, 1; inch knockouts at the bottom of the enclosure or through the 1-1/2 inch knockouts on the back of the enclosure. A dimple on the top of the enclosure provides a pilot hole for overhead entrance into the panel. The overhead entrance must use a listed outdoor conduit hub and must be mounted at the time of installation.

3. Prepare the necessary conduit runs, terminate them at both ends and pull in the conductors as specified by the installation layout. If this control is used for direct conduit connection to a wet-niche or no-niche luminaire, order one of the following:
   - 1/2" non-metallic - order 156PA13713A
   - 3/4" non-metallic - order 156PA13714A
   - 1" non-metallic - order 156PA13715A
   - 1/2" metallic - order 156PA14336A

4. Refer to Figure 1 below. Note that though this figure shows a P1353ME Digital Time Clock installed, the P1353ME is not included on all models. See door panel for the specific configuration and rating of the model you are installing. A breaker base for up to eight full size circuit breakers is included on all models. To wire the panel, follow the wiring diagram located inside the enclosure door. When wiring the P1353ME, make sure that the connections are tight (25 lb.-in. minimum) and insulation clears the pressure plate (see illustration). If required by the heater manufacturer, the P1353ME includes a connection for a fire-man switch. This switch only works in conjunction with circuit #1 (Load #1) on the P1353ME. Refer to pages 6 & 7 of the P1353ME Instruction Manual for connection information, and refer to page 28 for fireman switch programming information. Use at least #18 AWG wiring with insulation rated 300 volt or higher. Some heaters may require a special connecting harness, contact heater manufacturer for details. Place heater ON/OFF switch on heater to ON position.

5. To install additional wiring devices inside the enclosure, first remove rectangular knock-out(s) in dead front. Next, remove hex head screws inside back of enclosure and install stand-offs in place of screws. Attach wiring device to stand-offs. *Stand-offs are not furnished. Order 211T156A for a set of four (4) stand-offs and mounting hardware.

6. If external bonding is required, install a bonding lug at bottom of enclosure and bond according to code requirements (Order 156T11047A for Bonding Lug Kit).

7. Testing of this installation is optional and recommended only if the desired loads are securely in place and will not be damaged by this test:
   - a. Turn ON power at breaker panel.
   - b. P1353ME display should fully illuminate and then start to blink 12:00AM provided the memory backup capacitor is discharged. Otherwise, it will display the time.
   - c. Push each of the ON/OFF buttons to verify devices cycle on and off. In case of unsatisfactory results, turn OFF power, check your wiring, refer to Troubleshooting on Page 3.

8. Install front panel over wiring compartment. The control is now ready for programming, see OPERATION section on Page 4.

9. Electrical connection for fireman switch is made at bottom of enclosure, first remove rectangular knock-out(s) in dead front. Then, attach wiring device to stand-offs. This fireman switch only works in conjunction with circuit #1 on the P1353ME. The fireman switch is only associated with circuit one on the P1353ME, therefore the pump filter should be connected to circuit one. Program the time desired for the cool down period and the P1353ME will take over. For more details, refer to P1353ME Instruction Manual.

10. If required by the heater manufacturer, the P1353ME includes a connection for a fire-man switch. This switch only works in conjunction with circuit #1 (Load #1) on the P1353ME. Refer to pages 6 & 7 of the P1353ME Instruction Manual for connection information, and refer to page 28 for fireman switch programming information. Use at least #18 AWG wiring with insulation rated 300 volt or higher. Some heaters may require a special connecting harness, contact heater manufacturer for details. Place heater ON/ OFF switch on heater to ON position.

11. Electrical connection for fireman switch is made at bottom of enclosure, first remove rectangular knock-out(s) in dead front. Then, attach wiring device to stand-offs. This fireman switch only works in conjunction with circuit #1 on the P1353ME. The fireman switch is only associated with circuit one on the P1353ME, therefore the pump filter should be connected to circuit one. Program the time desired for the cool down period and the P1353ME will take over. For more details, refer to P1353ME Instruction Manual.

TROUBLESHOOTING

1. Display will not come “ON” when unit is powered up?
   - 1a. Power to clock not present. Check connections to clock. See Pg. 7 of instruction manual.
   - 1b. Fuse on back of clock blown. See Pg. 7 of instruction manual.
   - 1c. Power to clock not present. Check connections to clock. See Pg. 7 of instruction manual.

2. Freeze protection circuit not working?
   - 2a. Freeze Probe (P/N 178PA28A) not installed or bad. See Pg. 7 of instruction manual.
   - 2b. Clock programming not set up. See Pg. 7 of instruction manual.
   - 3a. Internal ON/OFF Times have not been defined. See Pg. 7 of instruction manual.
   - 3b. ON or OFF time is in override mode. See Pg. 7 of instruction manual.
   - 3c. Clock is in Freeze protection Countdown Mode. See Pg. 7 of instruction manual.
   - 4a. Power to clock was interrupted long enough to lose time of day. See Pg. 7 of instruction manual.
   - 4b. Clock still in programming mode. See Pg. 7 of instruction manual.
   - 5a. Fireman switch wires not hooked up correctly from heater. See Pg. 7 of instruction manual.
   - 5b. Fireman switch programming not defined. See Pg. 7 of instruction manual.

3. Unit does not turn “ON” or “OFF” at desired times?
   - 1a. Jumper on back of clock is missing or set incorrectly. See Pg. 7 of instruction manual.
   - 1b. Fuse on back of clock blown open. See Pg. 7 of instruction manual.
   - 1c. Power to clock not present. Check connections to clock. See Pg. 7 of instruction manual.

4. Display continues to blink ON and OFF?
   - 2a. Freezer Probe in switch on heater to ON position.
   - 2b. Freezer Probe in switch on heater to OFF position.

5. Fireman switch not working?
   - Set Jumper to proper location. See Pg. 7 of instruction manual.
   - Replace fuse with 1/8 amps fuse. See Pg. 7 of instruction manual.
   - Clock connections to clock. Check circuit breakers.

6. The New Intermatic Freeze Probe allows you to protect your pool or spa equipment during an unexpected freeze condition. The freeze probe comes with a 10 foot cable and plugs into the back of the P1353ME. The P1353ME can be programmed to turn on each or all individual loads at any desired outside temperature. Heater Protection (Fireman) Switch is standard with each P1353ME. It comes standard with a Fireman Switch connection for your pool or spa heater. Simply connect the two wires from your heater thermostat to the back of the P1353ME. The fireman switch is only associated with circuit one on the P1353ME, therefore the filter pump should be connected to circuit one. Program the time desired for the cool down period and the P1353ME will take over. For more details, refer to P1353ME Instruction Manual.

7. The New Intermatic Freeze Probe allows you to protect your pool or spa equipment during an unexpected freeze condition. The freeze probe comes with a 10 foot cable and plugs into the back of the P1353ME. The P1353ME can be programmed to turn on each or all individual loads at any desired outside temperature. Heater Protection (Fireman) Switch is standard with each P1353ME. It comes standard with a Fireman Switch connection for your pool or spa heater. Simply connect the two wires from your heater thermostat to the back of the P1353ME. The fireman switch is only associated with circuit one on the P1353ME, therefore the filter pump should be connected to circuit one. Program the time desired for the cool down period and the P1353ME will take over. For more details, refer to P1353ME Instruction Manual.