OWNER'S MANUAL

PFDT - 7 Day Timer

"Power-Flo Pumps & Systems,
Your Power-Ful partner
for all your pumping needs"

Power-Flo Pumps & Systems
a Power-Flo Technologies company

PFDT 7-Day Timer

General Safety Information

Before installation, read the following instructions carefully. Failure to follow instruction and Safety information could cause serious bodily injury, death and/or property damage. Each Power-Flo pump is individually factory tested to insure proper performance. Closely following these instructions will eliminate potential operating problems, assuring years of trouble-free service.

⚠ **WARNING** Installation, wiring, and junction connections must be in accordance with the National Electric Code and all applicable state and local codes. Requirements may vary depending on usage and location.

⚠ **WARNING** Installation and servicing is to be conducted by qualified personnel only.

Receiving Inspection

Upon receiving the timer, it should be inspected for damage or shortages. If damage has occurred, file a claim immediately with the company that delivered. Care should be taken to ensure the timer is **NOT** dropped or mishandled, dropping will damage the timer. If the manual is removed from the packaging, do not lose or misplace.

⚠ **WARNING:**
CANCER AND REPRODUCTIVE HARM-
WWW.P65WARNINGS.CA.GOV

Features

PFDT - 7-Day Digital Timer

The digital, programmable timer allows for control of the circulator (on / off) at designated times (up to four custom settings per 24 hour period) for up to 7 days (similar to a programmable thermostat). The timer is plugged into a standard wall outlet and the circulator pump is then plugged into the timer allowing for time control of the pump. This unit has an internal battery backup which will, (in the event of loss of AC power), power the unit and save / maintain program settings (battery will last for 48 hours before needing to be recharged).

NOTE: The Digital timer (PFDT) and Aquastat (PFSOA) can ALSO be used together, in tandem to allow for BOTH temperature AND time control.

Liquid Crystal Display (LCD) and integrated circuitry are used in this digital timer. The screen of the timer has a large display, multi-functioning, accepts heavy loads, and is easy to use.

This digital timer displays the present time accurately. It can control eight groups of on/off switch and can provide a random timing output when required. There are also many combinations, such as hourly, daily, weekly, and group of the week for the timer on and off selection.

NOTES:

1. Output load should not exceed 1725 w/15A.

2. The tolerance of the timer is approximately 2 minutes per month.

3. "R" means reset.

BEFORE YOU START

Before use, it is recommended to plug the timer into 115V wall socket for one hour to charge the internal battery. If the display does not automatically show, press the reset button on the face of the timer.
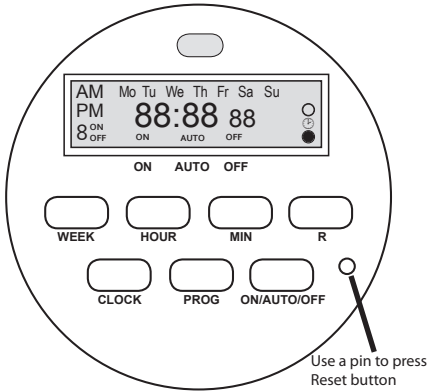
Power-Flo Pumps & Systems
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AM Mo Tu We Th Fr Sa Su
PM
8 ON   88:88 88
OFF   ON   AUTO   OFF

ON   AUTO   OFF

WEEK   HOUR   MIN   R

CLOCK   PROG   ON/AUTO/OFF

Use a pin to press
Reset button

SETTING THE TIME:

Before using the timer, the present time must be set.

1. For setting the hour, press "CLOCK" and "HOUR" at the same time (Fig. 02).

2. For setting the minute, press "CLOCK" and "MINUTE" at the same time (Fig. 02).

3. For setting the week, press "CLOCK" and "WEEK" at the same time (Fig. 02).

SETTING THE TIMER PROGRAM:

1. Press "PROG" to enter into the setting mode. The display shows "1 ON" (Fig. 05).

2. Press "HOUR", "MIN" and "WEEK" to set the hour and minute, as well as the day of week for the timer on.

3. Press "PROG" again for the setting the off time. The display shows "1 OFF".

4. Repeat above step (2) for the off time.

5. Press "PROG" again to enter into the second on/off mode.

6. Repeat steps (1) and (4) for setting the timer on/off.

There are a total of eight groups of timer settings. During the setting mode, Press "R" for canceling the setting time. Press "R" again for coming back to the previous set time.

COMBINATION WEEKLY SETTING:

1. During the timer on/off setting mode, press "WEEK" once. The display will show Mo, Tu, We, Th, Fr, Sa, Su. This means that it is a daily on/off setting.

2. Press "WEEK" again, the week day will show. Set to the required week day. In this setting the timer will only work in the set week day.

3. After the display showing Su, the next press will show Mo, Tu, We, Th, Fr. The timer gives the setting only for the working day in the week.

4. Press "WEEK" again, the display will show the setting only for the weekend and Sunday.

5. Press "WEEK" again, the display will show the whole week except Sunday. This means the timer will work on the week days except Sunday.

6. Press "WEEK" again, the display will show Mo, We, Fr. The timer will work these days.

7. Press "WEEK" again, the display will show Tu, Th, Sa. The timer will work these three days.

8. Press "WEEK" again, the display will show Mo, Tu, We. The timer will work these three days.

9. Press "WEEK" again, the display will show Th, Fr, Sa. The timer will work these three days.

10. Press "WEEK" again to clear the weekday display. In this setting the timer is DEACTIVATED.

Press "R" for cancelling the setting week days. Press it again to return to the previous week day.

PFDT 7-Day Timer

TIMER ON/OFF MODE:

After programing your timer you must select 1 of 4 operating modes:

ON - This function allows you to bypass your programed events. Power will remain ON.

OFF - This function allows you to bypass your programmed events. Power will remain OFF.

AUTO - This function will activated the timer according to your programed events.

RANDOM - Adjusts your settings by a random 2 minute increment of +/- 30 minutes.

Press ON/AUTO/OFF to select one of these modes (Fig. 06, 07, 08)

Press WEEK & HOUR simultaneously to activate or deactivate the RANDOM mode (Fig. 09). Note: A small hollow circle "o" will appear on the right side of the LCD screen while RANDOM mode is active.

SPECIAL FEATURE:

1. Press and hold HOUR and MIN simultaneously to activate or deactivate Daylight Savings Time (DST) (Fig 03.). Note: A small clock symbol will appear on the far right of the LCD screen when DST function is active.
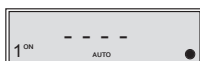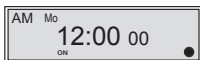

Fig. 02

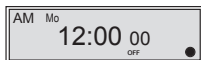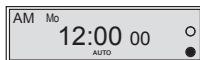Fig. 03

Fig. 04

Fig. 05

Fig. 06

Fig. 07

Fig. 08

Fig. 09

Random Mode ON/OFF
DST - Time ON/OFF
This circle is ALWAYS ON
Event Number Event ON/OFF
Operation Mode ON/AUTO/OFF
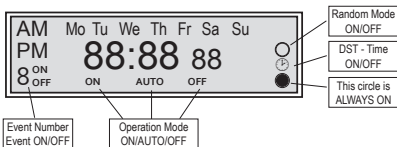

PFSOA - Snap on Aquastat
The Aquastat simply "clips" onto any material 1/2" ID or 3/4" ID piping. It then plugs into a standard wall outlet. You would then plug in the power cord for the circulator into the aquastat plug and it will turn the circulator on and off automatically at fixed set points (ON 98°F and OFF at 114°F) allowing for temperature control of pump.

NOTE: The Digital Timer (PFDT) and Aquastat (PFSOA) can ALSO be used together, in tandem to allow for BOTH temperature AND time control.