

SMARTFLUSH DC™ INSTRUCTIONS

DESCRIPTION:

The **SMARTFLUSH DC™** is an automatic flush controller which can power one DC Latching valve for an adjustable time period at individual programmed intervals for each day of the week. It is powered by eight AA alkaline batteries giving a total of 12VDC. The LCD display will turn off during normal operation to help conserve power.

There are two modes of operation.

AUTOMATIC MODE:

Automatic flushing occurs depending on the program selected for each day of the week.

SW/PIR: (*Holiday mode/Manual flush*)

SW/PIR mode is activated by a key switch (optional extra – part # 1234), when set to 'ON' the controller will only flush once per day (holiday mode). Turning the key switch on and off will tell the timer to perform a manual flush.

To check the mode of operation a single press of the UP or DOWN button will active the display, first the clock is displayed e.g. TH 11:30 (Days of the week are represented by SU/MO/TU/WE/TH/FR/SA)

Once the clock has been displayed then the LCD will show either AUTO MODE or SW/PIR. During a flush the LCD will show 'FLUSHING'

FLAT BATTERY WARNING:

After the Valve is turned off the battery voltage is tested, if this voltage is found to be too low for reliable operation THE Smart Flush Controller will **STOP FLUSHING**. The LCD will show "**CHANGE BATTERIES**" and there will be a beeping sound for the duration of the message. This warning will appear every hour or when any of the buttons are pushed.

To clear the low battery warning, change the batteries then enter the setting menu and check the clock. **Replace Batteries Annually.**

SMARTFLUSH DC™ INSTALATION:

Find a suitable location to mount the **SMARTFLUSH DC™** box. The controller must be installed away from direct weather and in such a way that water can not follow the wires back to the controller. Lift up the two mounting tabs and use two appropriate screws to mount the control box to the wall, Insert eight "AA" **ALKALINE** batteries. Do NOT mix battery types.

VALVE CONNECTION:

Wire the **DC Latching** valve to the socket marked VALVE observing the polarity, + (Positive) connects to the right hand side. If the valve OPERATES BACKWARDS then the wiring polarity needs to be reversed.

KEY SWITCH:

Wire the key switch to the socket marked 'SWITCH'

CONTROLLER SETTINGS:

Set the clock and flush program and flush duration as described under SETTINGS MENU. Then test the setup by either turning the key switch on and off or by pushing the UP & DOWN buttons simultaneously.

SETTINGS MENU

To select the SETTINGS MENU push the SELECT button and the following will be displayed;

"1)CLOCK"

Press the UP or DOWN buttons to scroll to the option you wish to change. Press the SELECT button to select the sub-menu of the currently displayed menu item.

The Menu items are:

- 1)CLOCK
- 2)PROG.
- 3)FLUSH
- 4)HELP
- 5)EXIT

The settable items in the sub-menus will be flashing, to change these values use the UP or DOWN button to adjust the value, if the value is correct press SELECT to move to the next step, once all setting have been set you will return to the settings menu, press the UP or DOWN button to scroll to **EXIT** and press **SELECT** to **SAVE** your **Settings**.

1)CLOCK

Sets the day of the week and the time of day in a 24 hour format, note there is an AM/PM indication to avoid incorrect settings.

2)PROG.

Set the program number for each day of the week. Program times as listed under help (Menu item 4).

3)FLUSH

Set the flush duration in seconds from 1-90. This is the number of seconds the valve will remain open for.

4)HELP

Help displays the following table one line at a time, to skip a line hold the up or down button.

PROG 1. = 1pm

PROG 2. = 7am, 7pm

PROG 3. = 7am, 2pm, 9pm

PROG 4. = 7am, 11am, 3pm, 7pm

PROG 5. = 7am, 11am, 3pm, 7pm, 11pm

PROG 6. = 7am, 10am, 1pm, 4pm, 7pm, 10pm

PROG 7. = 0am, 6am, 9am, 12pm, 3pm, 6pm, 9pm

PROG 8. = 3am, 6am, 9am, 11am, 2pm, 5pm, 8pm, 11pm

PROG 9. = 0am, 2am, 4am, 9am, 12pm, 2pm, 4pm, 6pm, 8pm, 10pm

PROG 10 = SCHOOLS 1/8/9/10/11am, 12/1/2/3/4/6pm

PROG 11 = OFFICES 1/8/9/11am, 1/3/5/6/7pm

PROG 12 = CINEMAS 1/8am, 1/3/5/7/9/11pm

PROG 13 = SHOPS 1/8/9/11am, 1/3/5/6/8pm

PROG 14 = EVERY 2 HOURS

PROG 15 = EVERY 3 HOURS

PROG 16 = EVERY HOUR FROM 7AM TO 7PM

PROG 17 = EVERY 2 HOURS FROM 7AM TO 7PM

PROG 18 = EVERY 3 HOURS FROM 6AM TO 9PM

5)EXIT

When **EXIT** is selected push **SELECT** to **SAVE ALL SETTINGS**, the Controller will then enter automatic operation.

Note: If any of the menu items are left unattended for 3-4 mins the controller will time-out and automatically save all settings and return to automatic operation.

TEST FUNCTION

To test the valve wiring, hold both the UP and DOWN buttons simultaneously and the valve will open, the will remain open until the buttons are released.

NOTES:

Replace Batteries Annually or when low battery warning occurs.

WARRANTY – SMARTFLUSH DC™

The **SMARTFLUSH DC™** is covered by a limited 1 year warranty against component failure or faulty workmanship from the date of installation.

A faulty unit should be returned with the receipt of sale to the Store where the controller was purchased.

Damage to the unit due to misuse, or incorrect installation that is not in accordance with the manufacturer's instructions will void the warranty.

"WATER DAMAGE WILL NOT BE COVERED UNDER WARRANTY"

Warranty does not cover:

- Removal or replacement of controller from its installation
- Travel costs to or from installation site
- The return of the controller to the manufacturer
- Any damage caused by water in the controller box
- Any damage caused by flooding

If the power cord is damaged, do not use the controller; return the unit to the supplier for repair.

Customer Record. (To be retained by the customer)

Dealer/Installer Name _____

Serial Number _____

Date Installed _____

For service assistance phone 1300 730 551

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