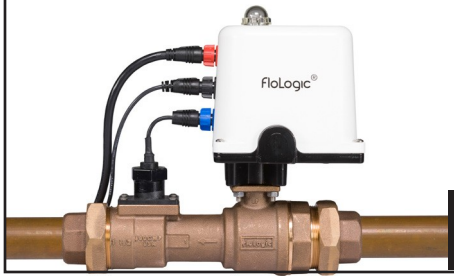
FloLogic®

Smarter Water Control®



Intelligent Leak Control with EverWatch™ Technology

Local Control Panel Directions for Use

Please register your purchase online by visiting the "Product Registration" page at www.flologic.com or scan the QR code below with your smartphone.

Date of Purchase: _____

Installed By: _____

Attach receipt here:

Product Registration QR

This manual covers operation using the local Control Panel. Changes made through the app will be reflected on the Control Panel and vice-versa.

For a quick overview of System operation, scan this Local Control Panel User Video QR

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GENERAL INFORMATION

Congratulations on your purchase and installation of the FloLogic System®. You can now relax knowing that your home or business is constantly protected against flooding due to leaks or failures in its plumbing system. In addition, FloLogic will give you early notice of water wastage due to leaks that, according to the EPA, account for 12% of domestic water use in the USA. The FloLogic System will monitor and control all water flowing through a residence or building's plumbing system.

The System works by detecting and timing the flow of water through the inlet water pipe. There are two basic operating modes for the System: Home and Away. The difference is the occupancy status of the building and thus the amount of water that is expected to be used.

FloLogic's EverWatch(R) flow sensing technology can detect leaks in real time beginning at ½ ounce per minute. The default flow rate sensitivity is set at 2 ounces per minute. Once flow above 2 ounces per minute is detected, the System allows water to flow for whatever length of time the user has stipulated for each of the modes.

The default time for the Home mode is 30 minutes, and the Away mode is 30 seconds.

Switching from Home mode to Away mode, and conversely from Away mode to Home mode, is accomplished by simply pressing the corresponding key on the Control Panel.

When water flow exceeds the preset timer intervals, the water is turned off, an audible alarm is sounded, and the Control Panel displays the message “HOME.TIME / EXCEEDED” OR “AWAY.TIME / EXCEEDED”. If connected to a security system and the FloLogic app, the System will communicate the leak event to your security system and via push notifications to notify you of the alert.

The FloLogic System includes several convenience features and allows the user to change any of the default timer intervals if so desired.

Another feature that distinguishes FloLogic is a patented process where the software periodically “exercises” the ball valve to ensure the valve itself is operating correctly. No other automatic shut-off system can provide this unique and comforting feature.

ROUTINE TESTING AND PERIODIC MAINTENANCE

To ensure your System functions as intended, perform the following test every six months and replace the battery as needed.

1. FLOW DETECTION AND SHUTOFF TEST

a. **Place the FloLogic System in the Away mode by pressing the AWAY key on the Control Panel or selecting Away mode in the app. The valve should cycle as it enters the Away mode. Turn on a faucet in the property and look for the appearance of the pinwheel flow indicator on the right side of the LCD or the progress of the countdown timer in the app.**

b. **After the expiration of the Away timer, the beeper will sound and the Control Panel display will change to AWAY.TIME / EXCEEDED and the valve will close. If you have the app installed and notifications turned on, you will also receive a notification that the Away flow limit was exceeded. The app will display ShutOff and indicate Flow Time Exceeded as well.**

c. **Confirm your water has stopped running. *NOTE: siphoning from overhead pipes and backflow from thermal expansion tanks can cause flow for some time after a shutoff.* Press the DISABLE key once to silence the beeper and then press the HOME key to turn the water back on. Alternatively, in the app, touch the center dripping faucet icon and select Water On to restore water service.**

d. **Between tests, if the System switches to AUTOAWAY when the home is occupied and water is being used, this may be due to an undiagnosed issue, and the flow detection and shutoff test should be conducted as soon as possible.**

2. BATTERY

The Battery provides back-up power and should be replaced when it will no longer hold a charge. Batteries typically need to be replaced every three years. Replace with a 12-volt, sealed lead acid, AGM battery rated between 4.0 and 6.0 amp hours.

Test Log

Test Date	Flow Detection and Shutoff Test Completed	Test Date	Flow Detection and Shutoff Test Completed

Control Panel

BASIC OPERATION

Home Mode

Upon System start-up the Control Panel will read “HOME” indicating that the Home timer is in effect. The default time limit for the Home mode is 30 minutes. When the display reads “HOME”, this is the length of time that water will be allowed to run uninterrupted before the System turns off the water.

Quick Check

You can easily check for any background water flow as well as the condition of the back-up Battery. When in Home mode, press the HOME key once to display real-time-flow (up to 48 ounces per minute) and again to display the condition of the back-up Battery (Good, Fair, Poor, Change, None). NOTE: The Battery condition will only be displayed on Systems equipped with the Type II Power Supply than began shipping in mid-2020. Original FloLogic Power Supply users will see a Battery Unknown message (BAT UNKN). Press the HOME key once more to exit the Quick Check view.

Away Mode

When you wish to change to Away mode, press the AWAY key. The default time limit for the Away mode is 30 seconds. When you switch from Home mode to Away mode, the display will read “AWAY”, and the Valve will enter an exercise cycle that results in the Valve closing and then reopening. During this time, you may hear the motor turning the Valve. To exit the Away mode, simply press the HOME key to return to the Home mode.

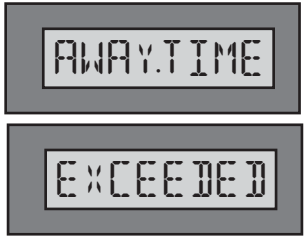
Pinwheel indicates water flow

Flow Indication

When water is flowing (above the flow sensitivity setting) anywhere in a plumbing system monitored by FloLogic, a rotating pinwheel will appear on the right side of the LCD. The left side of the display will continue to indicate the current operating mode of the System.
The pinwheel is illuminated within a few seconds after the water begins running and will disappear within a few seconds after the water has stopped.

Extended period with no water flow detected

As an added security feature, the System will automatically place itself into the Away mode (Auto Away) after detecting no water flow for an extended period of time. The default setting is 18 hours and can be changed to a time as short as 1 hour and as long as 30 days, or this feature can be turned off (see Programming Instructions beginning on page 22). When Auto Away is activated, the Control Panel will sound a double chirp every 20 seconds.



Silences Alarm

Restores Water

Clearing Alarms

When either the Home or Away time limits are exceeded, the System will turn off the water, display "HOME.TIME / EXCEEDED" or "AWAY.TIME / EXCEEDED" on the LCD and sound an audible alarm at the Control Panel. To turn off the audible alarm, press the DISABLE key.

Once the source of the alarm has been identified and corrective action taken, press the HOME key to restore water service. During the first few minutes of water service restoration, the pinwheel may illuminate as any previously emptied pipes are refilled with water. This is normal and will stop as your plumbing system pipes and appliances refill and are purged of air.

Turns Water Off

Manual Water Shutoff

If you wish to manually turn off the water from the Control Panel, simultaneously press both the NEXT/BYPASS key and the DISABLE key. When the Valve is closed by this keystroke command, the display will read "WATER.OFF".

In the app, you can touch the center mode icon and then select Shutoff to accomplish the same.

Restores Water

Restoration of water service is accomplished by pressing the HOME key.

SYSTEM COMPONENTS

There are five major components to the FloLogic System:

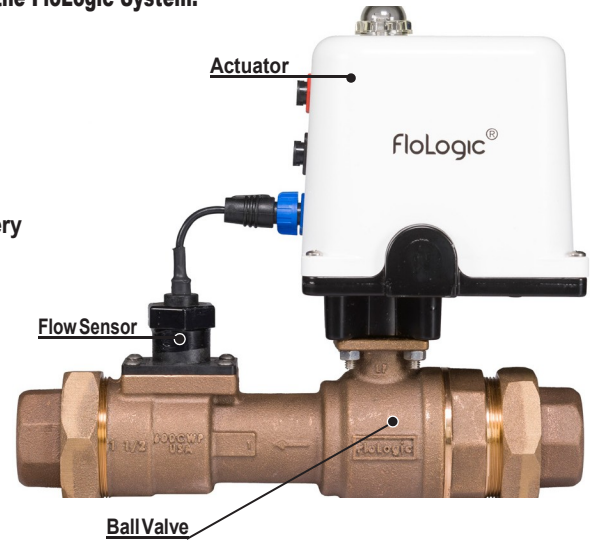
1. Ball Valve and Actuator
   ("Valve Assembly")

2. Flow Sensor

3. Power Supply and Back-up Battery

4. Keypad with LCD
   ("Control Panel")

5. CONNECT Module



1. Ball Valve and Actuator (“Valve Assembly”)

The Valve Assembly is mounted on the incoming main water line; after the meter or well pressure tank, but prior to where the distribution lines are branched-off to the various floors, rooms and plumbing appliances. If desired, the Valve Assembly may be installed out-of-doors, above grade, provided that it is not subjected to temperatures below 35 or above 115 degrees F. The Valve Assembly may not be submerged at any time.

The Valve Assembly is comprised of a full-port, lead-free cast bronze valve mated to an actuator enclosed in a water -resistant and dust-proof housing. There are three color-coded connectors on the actuator housing:

- **Blue for the Flow Sensor**
- **Black for the CONNECT Module and Control Panel**
- **Red for the Power Supply**

The Valve Assembly should be mounted to provide access to the manual override located under the clear dome on top of the actuator housing. Using the included 8mm socket tool or your own socket wrench, this override can be used to manually open or close the Valve after power has been disconnected from the unit (See Manual Override Instructions on back cover).

2. Flow Sensor

The Flow Sensor is connected to the blue color-coded receptacle on the Valve Assembly. The Flow Sensor is responsible for the detection of water running through the System. While the Flow Sensor is able to detect flow as low as ½ ounce per minute, the software controlling the Flow Sensor is factory pre-set with a sensitivity of 2 ounces of flow per minute. Depending on your specific needs, you can adjust the sensitivity of the Flow Sensor (see Programming Instructions beginning on page 22).

The Flow Sensor has been designed as a field-replaceable item, as the service life of this component is dependent on the water quality where the System is installed. Water hardness, dissolved solids and debris, such as sand or silt, may impact the life of the Flow Sensor. Water treatment regimens such as filtration and softening can lengthen the life of the Flow Sensor.

Because service life varies due to your local water chemistry, FloLogic requires that you perform the flow detection and water shutoff test described on page 5 every six months.

If ever needed, a replacement Flow Sensor can be ordered from FloLogic at www. flologic.com.

SYSTEM COMPONENTS (CONTINUED)

3. Power Supply and Back-up Battery

The Power Supply serves as the primary power source for the System, while also monitoring for the loss of AC power and providing a continuous trickle charge to the battery. The Power Supply is connected to the Actuator with a 15-foot cable. The Power Supply (and Battery) must be located inside or in a weather-protected environment such as a crawl space, basement, or watertight outdoor enclosure. The Power Supply plugs into a standard grounded AC outlet. The included Battery powers the entire System, including the CONNECT module in the event of an AC power failure.

The length of time the battery will power the System during a loss of power is dependent on several variables, including the age of the battery and the environmental conditions in the area where it is installed. When AC power is restored, the battery will be recharged. A complete battery discharge due to prolonged power loss will substantially shorten battery life and may necessitate a replacement.

A replacement battery can be purchased in many stores or ordered directly from FloLogic.

BATTERY SPECS:
12-Volt, Sealed Lead-Acid, AGM battery
Rated between 4.0 and 6.0 Amp Hours (Ah)
Configured with F1 (3/16”) terminals

4. Keypad and Display (“Control Panel”)

The Control Panel is the local user interface for the System. Status messages and programming functions are available at the Control Panel.

All security system interconnects are located on the circuit board and the Control Panel is connected to the CONNECT module with the included jumper. A Quick Reference card provides information on the basic operation of the FloLogic System.

Quick Reference

5. CONNECT Module

The CONNECT module provides connectivity to your local internet network and enables remote access to the System using the FloLogic app or a web browser login. See additional documentation on installation of the CONNECT module and use of the FloLogic app at www.flologic.com/support/ This module it not required for operation. The FloLogic System command and control is local to the System and can always be operated from the local Control Panel.

OPERATIONS AND TERMINOLOGY

Flow Sensitivity (“Drip Rate”)

The Drip Rate allows the user to change flow detection sensitivity to ignore seasonal low-use water demand from appliances such as humidifiers as well as known “nuisance leaks” such as dripping faucets. The System ships with a default setting of 2 ounces per minute and can be set anywhere from 0.5 to 48 ounces-per-minute.

Based on your plumbing system characteristics, you can modify the Drip Rate setting to a higher or lower sensitivity threshold. The System will not start any flow timers until incoming water flow is higher than the Drip Rate. Flow timers are automatically reset when the flow of water drops below the Drip Rate setting.

When water is flowing above the Drip Rate setting, a rotating pinwheel is displayed on the right side of the LCD. To check or change the settings for this feature, refer to the Programming Instructions beginning on page 22 or make changes in the app.

NOTE: Use caution when changing the Drip Rate value. Lowering the Drip Rate (higher sensitivity) can result in frequent alarms. Raising the Drip Rate (lower sensitivity) will allow significant volumes of water to flow, unmanaged, into your home or business. See the reference table on page 44 for Drip Rate water flow equivalents over daily, monthly, and annual periods.

Activates Home Mode

Home Mode

Home mode is designed to be used when the structure is occupied. Home mode has a default limit of 30 minutes of uninterrupted water flow before shutting off the water. If desired, this time can be set as short as 5 minutes and as long as 3 hours (see Programming Instructions beginning on page 22). When in any state other than Home (Away, Bypass, Water Off), the Home mode may be activated by pressing the HOME key on the keypad. When the System is in the Home mode, the LCD will read "HOME"

Activates Away Mode

Away Mode

Away mode is typically used when the structure is unoccupied. The Away mode has a default limit of 30 seconds of uninterrupted water flow before shutting off the water. This time can be changed to any value between 30 seconds and 2 hours. You may also turn off the water when the Away mode is activated (see Programming Instructions beginning on page 22). When in any state other than Away, the Away mode may be activated by pressing the AWAY key on the keypad. When the Away mode is activated, the Valve will complete an exercise cycle, confirming operational readiness. Unless WaterOff has been set for the Away mode, when the System is in the Away mode, the LCD will read "AWAY". If the Delay Away feature has been enabled, activation of the Away mode will be postponed during the delay interval (see DELAY AWAY below).

Activates Away Mode

Delay Away

When activated via the programming menu, this feature delays the start of the Away mode for a preset time. This is useful for those who may wish to start a long-cycle plumbing appliance such as a laundry machine or a dishwasher immediately prior to leaving the premises.

During the Delay Away interval, the System utilizes the Home timer (e.g. 30 minutes of flow). At the end of the Delay Away interval, the System will automatically switch to the Away mode. The System is preprogrammed with Delay Away set to OFF. This feature can be set to any value from OFF up to 1 hour and 59 minutes.

When programmed with any value other than OFF, the Delay Away interval will be activated every time the user activates AWAY mode. To deactivate this feature, change the Delay Away setting to OFF. When the System is in the Delay Away mode, the display will read "DELAYXXX", with XXX representing the number of minutes remaining in the delay interval. To change this feature, refer to Programming Instructions beginning on page 22.

Activates Bypass Mode

Bypass

The Bypass function provides a quick way to temporarily disable the flow timers. When activated, Bypass allows an extended continuous use of water without changing the Home or Away settings. Upon expiration of the Bypass time, the System will revert to Home or Away mode.

During the Bypass period, the user can end the Bypass function by pressing either the Home or Away key. With a default setting of two-hours, the Bypass time can be set anywhere from 15 minutes to 23 hours (in 15 minute increments). When the System is in Home or Away mode, this feature is activated by pressing the NEXT/BYPASS key or by a momentarily closing a relay attached to TB2 pins 1 & 2.

When in Bypass mode, the display will read "BYPASS" alternating with "HOME" or "AWAY", indicating the mode that will be active after completion of the Bypass time. If the Bypass time is activated by an external contact closure, the display will read "EX.BYPASS" alternating with "HOME" or "AWAY".

To change the running time for this feature, refer to Programming Instructions beginning on page 22.

Automatic Away

Automatic Away switches the System to the Away mode after no water flow has been detected for an extended period. With a default of 18-hours, this time can be as short as one-hour or as long as 30-days after the System last detects water flow above the Drip Rate. Auto Away may also be deactivated (OFF). This feature operates continuously in the background.

After switching to Auto Away, the Control Panel will chirp every 20 seconds to let you know the Away mode time limit is active. To silence the beeper while keeping the System in AutoAway, press the DISABLE key once. To change the settings for this feature, refer to Programming Instructions beginning on page 22.

NOTE: If the System reverts to Auto Away even though water has been running, a flow sensor replacement may be needed. Immediately conduct a Flow detection and Shutoff Test as described on page 4.

Control Panel Sounds

The Control Panel uses audible beeps to notify users about the presence of certain conditions such as Auto Shutoffs (suspected leaks), AutoAway activations and System Troubles. Pressing the DISABLE key on the keypad is normally required to turn off the beeper for any given event. Without this user action at the Control Panel, the beeper can run for extended periods of time. While this does not damage the System, it may cause issues with nearby neighbors. For persons who do not want these beeps, they may be disabled. See the Programming Instructions beginning on page 22 for details on changing this setting.

Powering Options

While the System is designed to operate with a Back-up Battery that is charged with AC power, you can power the System solely from a standard 12-volt battery, provided the battery is regularly charged with a solar battery tender. When the Battery Only mode is selected, the AC Lost error message will be disabled. See the Programming Instructions beginning on page 22 for details on changing this setting.

PROGRAMMING INSTRUCTIONS

The System is designed to accommodate virtually all user needs by allowing the user to change any of the default settings. The following are the default settings and the valid ranges for System features that can be reviewed and modified from the FloLogic Control Panel :

Feature	Default Setting	Setting Range
Drip Rate flow sensitivity	2 ounces per minute	0.5 to 48 ounces per minute
Home mode flow time limit	30 minutes	5 minutes to 3 hours
Away mode flow time limit	30 seconds	WATEROFF to 2 hours
Delay Away time	OFF	OFF, 1 minute to 2 hours
Bypass time	120 minutes	15 minutes to 23 hours
Auto Away time	18 hours	1 hour to 30 days, OFF
Sounds	On	Sound On, Sound Off
Power mode	AC with Battery Back-up	AC Only, AC+Battery, Battery Only

Make a note of any changes you make in the default settings in the My Settings section of this book on page 43.

NOTE: Additional programming capabilities and features are available through the FloLogic app

The programming menu can be accessed when the display reads “HOME”. To enter the Program mode, press the PROG key. The display will read “PROGRAM”. When in Program mode, pressing the NEXT/BYPASS key will scroll through the menu of settings as follows:

1. DRIP.RATE / X.X OZ/M
2. HOME / XXH XXM
3. AWAY / XX.XM or XXH XXM
4. DLAY.AWAY / XXH XXM or OFF
5. BYPASS / XXH XXM
6. AUTO.AWAY / XXD XXH
7. SOUND.ON or SOUND.OFF
8. AC + BATT or AC.ONLY or BATT.ONLY

Any of these setting may be changed using the UP or DN keys. After making any changes, you must press the ACCEPT/EXIT key to save the new setting. Pressing the NEXT/BYPASS key without pressing the ACCEPT/EXIT key will advance you to the next programmable feature without updating the value for the current feature.

After making changes, the new value will be continuously displayed, indicating it has not been saved. Pressing the ACCEPT/ EXIT key will update the program and the new value will alternate with the setting name, indicating it has been saved.

To change more than one item, press the NEXT/BYPASS key to advance to the next setting. To exit programming, press the ACCEPT/EXIT key until “HOME” appears on the display. The following pages explain the steps required to change the various program settings.

Drip Rate Setting

WHEN SHOULD YOU CHANGE THE DRIP RATE?

If you have a known, low-flow water use by an appliance such as a humidifier or RO system or a nuisance leak such as a dripping faucet, you may wish to decrease the flow sensitivity of the System by increasing the DripRate to avoid unnecessary shutoffs.

WARNING: The System has a default Drip Rate of 2 ounces per minute. Increasing the flow sensitivity by changing this Drip Rate to a lower number can result in a higher incidence of water shutoffs. Decreasing the sensitivity by raising this can result in prolonged, chronic water flow that is either running down the drain or leaking somewhere out of sight.

HOW TO CHECK BACKGROUND WATER FLOW AND CHANGE THE DRIP RATE:

1. **Prior to checking your background water flow, confirm that no water is being used in the property. While in the Home mode, press the HOME key once. The display will read XX.X OZ/M representing ounces per minute of flow. If no water is flowing, the display will read 0.0 OZ/M. Any flow above 48 ounces per minute is displayed as HIGH.FLOW. Press the HOME key again until "HOME" is displayed.**

2. **Press the PROG key to get into the Program mode and scroll to the Drip Rate setting using the NEXT/BYPASS key.**

Enter Program Menu

Scroll to DRIPRATE Setting

The display will read DRIP.RATE alternating with your current flow sensitivity setting expressed in ounces per minute.

PROGRAMMING INSTRUCTIONS **(CONTINUED)**

EXAMPLE 1: Reduce flow sensitivity to 6 ounces per minute.
Use the UP key to loosen flow sensitivity to 6 ounces per minute. This will increase the ignored flow by 4 ounces per minute (compared with the default 2 ounces per minute).

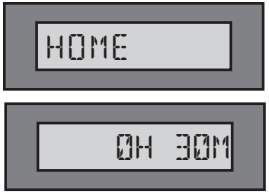
EXAMPLE 2: Increase flow sensitivity to 1 ounce per minute.
Use the DN key to tighten flow sensitivity to 1 ounce per minute. This will reduce the ignored flow by 1 ounce per minute (compared with the default 2 ounces per minute).

Accept Changes

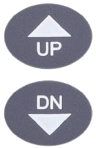
To accept changes, press the ACCEPT/EXIT key.

To move to the next setting (Home), press the NEXT/BYPASS key.

Home Setting



After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "HOME" alternating with the "XH XXM" screen representing Hours and Minutes of allowed flow in the Home mode.



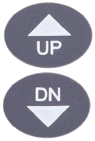
Raise or Lower Time Limit

To increase or decrease this value, press the UP or DN key to scroll to the desired time limit.

Accept Changes

To accept changes, press the ACCEPT/EXIT key.

To move to the next setting (Away), press the NEXT/BYPASS key.



Raise or Lower Time Limit

Accept Changes

Away Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "AWAY" alternating with the "XXM XXS" or "XH XXM" screen representing Minutes and Seconds or Hours and Minutes of allowed flow in the Away mode.

To increase or decrease this value, press the UP or DN key to scroll to the desired time limit.

To accept changes, press the ACCEPT/EXIT key.

To move to the next setting (Delay Away), press the NEXT/BYPASS key.

Delay Away Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "DLAY.AWAY" alternating with "OFF" or the "XH XXM" screen representing Hours and Minutes of the delay interval when the Away mode is selected.

Lengthen / Shorten Delay Time

To increase or decrease this value, press the UP or DN key to scroll to the desired time limit.

Accept Changes

To accept changes, press the ACCEPT/EXIT key.

To move to the next setting (Bypass), press the NEXT/BYPASS key.

NOTE: During the Delay Away interval, the Home flow timer limits will be in effect. After the Delay Away interval has expired, the Away timer limit will be active. When activated, the Delay Away timer will start each time the System is placed in Away mode.

Lengthen / Shorten Bypass Time

Accept Changes

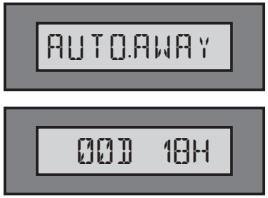
Bypass Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the “BYPASS” alternating with the “XXH XXM” screen representing Hours and Minutes of time for FloLogic to ignore flow when the Bypass mode is selected.

To increase or decrease this value, press the UP or DN key to scroll to the desired time limit.

To accept changes, press the ACCEPT/EXIT key.

To move to the next setting (Auto Away), press the NEXT/BYPASS key.



Auto Away Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "AUTO.AWAY" alternating with the "XXD XXH" screen representing Days and Hours of no flow detection before the automatic activation of the Away mode.

Lengthen / Shorten Auto Away Time

To increase or decrease this value, press the UP or DN key to scroll to the desired time limit.

To accept changes, press the ACCEPT/EXIT key.

Accept Changes

To move to the next setting (Auto Away), press the NEXT/BYPASS key.

NOTE: With Auto Away set to **OFF**, the System will never automatically activate the Away mode and early warnings of flow detection issues will be diminished**.**

Sound Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "SOUND.ON" or "SOUND.OFF" screen.

Turn Sound On or Off

To change the current setting, press either the UP or DN key.

To accept changes, press the ACCEPT/EXIT key.

Accepts Changes

To move to the next setting (Auto Away), press the NEXT/BYPASS key.

NOTE: With Sound set to **OFF**, no audible alarms will be generated. All alarms and System status alerts will be visual only.

Change Power Mode

Accept Changes

Power Setting

After entering the Program menu, press the NEXT/ BYPASS key to scroll to the "AC+BATT" or "AC.ONLY" or "BATT.ONLY" screen.

Use the UP or DN keys to change the selected power mode.

- AC+BATT – Both AC power and a back-up battery are present
- AC.ONLY – AC power without a back-up battery
- BATT.ONLY – No AC power. Battery charged by external source

To accept changes, press the ACCEPT/EXIT key.

To move to the next screen (EXIT?), press the NEXT/BYPASS key.

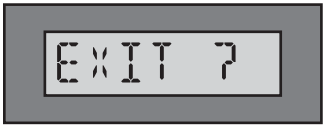
NOTES: AC Only mode may only be used with a Type II Power Supply which started shipping with Systems in mid-2020. The original FloLogic Power supply is unable to turn the Valve without a functioning Battery present.

Battery Only mode disables any alarms associated with the loss of AC power. The user will be responsible for ensuring their battery is always available and charged. With a battery as the only power source, the System will not operate if the Battery is missing or discharged.

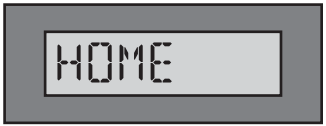
Exit Programming

To exit the programming mode when the LCD indicates "EXIT ?", press the ACCEPT/EXIT key. This will exit programming and return the System to Home mode.

To continue to scroll through the available settings, press the NEXT/BYPASS key.



Exits Programming



DISABLING / RE-ENABLING SYSTEM

To disable the System so it is not actively monitoring leaks, press the DISABLE key. The screen will read “DISABLE?”. Press the ACCEPT/EXIT key to disable. The screen will read “DISABLED”.

To re-enable the System when the display reads “DISABLED”, press the HOME key. The display will change to “HOME”.

FLOW SENSOR TEST *(PERFORM EVERY 6 MONTHS)*

No Flow Detected

To ensure proper operation of the System, the Flow Sensor must be tested every six months. If the System switches to AUTOAWAY when the home is occupied, this may be due to a non-working sensor and the following test should be conducted as soon as possible.

Flow Detected

While in the Home mode, turn on a faucet or flush a toilet. Look for the flow indicator (pinwheel) on the display. If there is no flow indication, run the test described on page 4 of this booklet. If no flow detection is occurring, your sensor may need to be replaced. Call FloLogic at (877) 356-5644 with any questions.

ADDENDUM

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OPERATIONAL MODE MESSAGES – DISPLAYED DURING NORMAL OPERATION

HOME	Home flow time limit in effect	Press AWAY to activate Away mode
AWAY or EXT.AWAY	Away flow time limit in effect	Press HOME to activate Home mode
AWAY / WATER.OFF	Away mode selected with WATER.OFF as setting	Press HOME to exit Away mode and restore water service
DELAY XXX	Home setting in effect. System will automatically switch to Away after XXX minutes	Press HOME to exit Delay Away
BYPASS or EX. BYPASS	Bypass mode is active and the Home and Away timers are temporarily disabled	System will revert to Home or Away mode after Bypass interval expires. Press HOME to manually exit Bypass mode
OVERRIDE / HOME or OVERRIDE / AWAY	System overridden by external device. Will revert to HOME or AWAY when complete	End external device cycle or wait for external device to finish cycle
WATER.OFF	Water has been turned off by user at CP or in app	Press HOME to restore water
DISABLED	System has been disabled by user at CP or in app	Press HOME to enable system
HOME.TIME / EXCEEDED AWAY.TIME / EXCEEDED	HOME or AWAY time limit exceeded. Water turned off	Press DISABLE to silence the audible alarm then HOME to restore water service
EXTERNAL / SHUTDOWN	External device instructed FloLogic to turn off water. Water turned off	Clear condition on external device. Press DISABLE to silence alarm and HOME to restore water service
AUTO.AWAY	Away mode auto-activated. No water flow detected above Drip Rate for an extended time.	Press DISABLE to silence chirp or HOME to exit Away mode. IF NEEDED, CHECK FLOW SENSOR (see page 36)

FAULT NOTIFICATIONS

AC LOST	AC power not detected, System operating solely on Battery power. Security alarm output delayed one hour to prevent alarm cycling during intermittent outages.	Check to make sure Power Supply is plugged in and there is power at the electrical outlet used by the System. Error message will automatically clear when AC power is restored.
SYS.DOWN	System inoperable due to general fault	Press and hold DN key until beeping stops then release to reset Valve Controller. Valve will cycle after a few seconds and error will clear if fault is resolved.
VAL.FAIL	Unexpected valve movement. Either no movement detected on actuation command or manual override by user while System is powered.	Can be due to power supply, relay or motor issue, disconnected internal wire or misaligned position sensor. Press and hold DN key until beeping stops then release to reset Valve Controller. Valve will cycle after a few seconds and error will clear if Valve rotation is confirmed
COMM ERR	Valve not communicating with Control Panel	Error message will automatically clear once communication is re-established.
STAND.DWN	System performing software update or other function that temporarily idles flow detection and shutoff	Wait for software update to complete. If message persists for more than two hours, reset the Valve Controller by pressing and holding the DN key until beeping stops. Valve should cycle after a few seconds and message will clear.
CHK BATT	Back-up battery unable to hold sufficient charge and needs replacement	Connect new battery. Press and hold DN key until beeping stops then release to reset battery watchdog. Valve will cycle after a few seconds.

PROGRAMMING MESSAGES – DISPLAYED ONLY WHEN IN PROGRAM MODE

PROGRAM	Initial screen in Programming mode	Press NEXT/BYPASS to advance to Drip Rate or ACCEPT/EXIT to exit
DRIP.RATE / XX OZ/M	XX is current Drip Rate setting (flow sensitivity in ounces per minute).	Default: 2 ounces per minute, Range: 0.5 to 48 ounces per minute Press UP/DN key to raise or lower, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to Home setting
HOME / XH XXM	XH XXM is current Home setting (in hours and minutes)	Default: 30 minutes, Range: 5 minutes to 3 hours Press UP/DN key to lengthen or shorten, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to Away setting
AWAY / XM XXS or XH XXM AWAY/ WATEROFF	XM XXS or XH XXM is current Away setting (in minutes and seconds or in hours and minutes). WATEROFF means water will be turned off when in Away mode	Default: 30 seconds, Range: 15 seconds to 2 hours Press UP/DN to lengthen or shorten, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to Delay Away setting
DLAY.AWAY / OFF or XH XXM	Delay Away is OFF or XH XXM is current delay setting (in hours and minutes)	Default: OFF, Range: 1 minute to 1 hour 59 minutes Press UP/DN to increase or decrease, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to Bypass setting

BYPASS/ XXH XXM	XXH XXM is current Bypass setting (in hours and minutes)	Default: 2 hours, Range: 15 minutes to 23 hours Press UP/DN to lengthen or shorten, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to Auto Away setting
AUTO.AWAY / XXD XXH or OFF	XXD XXH is current Auto Away setting (in days and hours) or Auto Away is OFF	Default: 18 hours, Range: 1 hour to 30 days, OFF Press UP/DN, then press ACCEPT/EXIT to change or NEXT/ BYPASS to advance to SOUND setting
SOUND.ON or SOUND.OFF	Current beeper / annunciator setting is ON or OFF	Default: On, Alternative: Off Press UP/DN, then ACCEPT/EXIT to exit programming or NEXT/ BYPASS to advance to Power mode setting
AC + BATT or AC.ONLY or BATT.ONLY	AC plus back-up battery is standard config. AC only if no back-up battery is used. Battery only if an external battery charging source is used such as solar (no AC power)	Default: AC + BATT, Range: AC + BATT, AC.ONLY, BATT.ONLY Press UP/DN, then ACCEPT/EXIT to exit programming or NEXT/ BYPASS to advance to Exit program
EXIT?	End of Program menu	Press ACCEPT/EXIT to exit programming or NEXT/BYPASS to return to initial screen in program menu

EXTERNAL CONTACT CLOSURE MESSAGES

(Resulting from external devices connected to FloLogic keypad via dry contacts on TB2 or TB3)

EXT AWAY	Away mode activated by external device such as a home security system	Deactivate external system to return to Home mode
EXT LEAK	External system or device requested water shutoff. Water is turned off at Valve	After clearing external alarm condition, press DISABLE to silence alarm then HOME to restore water service
EX.BYPASS	External device such as a water softening system has initiated Bypass mode. Home and Away timers are temporarily disabled	System automatically reverts to Home or Away mode after Bypass interval expires. Press and hold HOME key to force exit from External Bypass mode
OVERRIDE	External device such as an irrigation system has disabled the Home and Away timers during operation calling for extended water use	System automatically reverts to Home or Away mode when external system stops calling for water

MY SETTINGS

Programmable Feature	Default Setting	Enter Your Settings Here.
Drip Rate flow sensitivity	2.0 ounces per minute	
Home flow limit	30 minutes	
Away flow limit	30 seconds	
Delay Away time	Off	
Bypass time	2 hours	
Auto Away time	18 hours	
Control Panel Beeper	ON	
Power mode	AC + Battery	

This table gives you a perspective of how each Drip Rate value equates to gallons of water over time.

OZ / MINUTE	GAL / DAY	GAL / MONTH	GAL / YEAR
1.0	11.25	337	4,106
2.0	22.5	675	8,212
4.0	45	1,350	16,425
6.0	67.5	2,025	24,637
8.0	90	2,700	32,850
12.0	135	4,050	49,274
16.0	180	5,400	65,700
20.0	225	6,750	82,120
24.0	270	8,100	98,548
28.0	315	9,450	113,400
32.0	360	10,800	129,600
40.0	450	13,500	162,000
48.0	540	16,200	194,400

Based on EPA statistics, the average home in the USA has plumbing leakage averaging 2.5 oz / minute or 10,000+ gallons per year.

MAINTENANCE NOTES PAGE

QUICK REFERENCE

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HOME key - places system in Home mode

AWAY key - places system in Away mode

BYPASS / NEXT key - temporarily disables Home and Away timers

DISABLE key + BYPASS / NEXT key - turns the water off.

QUICK CHECK: When in Home mode
Press HOME key to toggle between
- **Home mode**
- **Background flow rate**
- **Back-up battery status**

Restore Water Service After a Leak - Press DISABLE to silence alarm then HOME to turn on water.

Test Flow Sensor (Perform every six months) - While in Home mode, turn on faucet or flush toilet. Confirm flow indicator (pinwheel) illuminates on LCD.

Disable System / Re-Enable System - Press DISABLE then press ACCEPT/EXIT to disable. Press HOME key to re-enable.

Manual Override of Valve (use only in emergency) - Disconnect RED (power) connector from actuator, Unscrew clear dome from top of actuator. Using 8mm or 5/16" socket on the exposed valve shaft, push down and rotate the Valve to the desired position.

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