FloLogic®
Smarter Water Control™

Intelligent Leak Control with EverWatch™ Technology

Local Control Panel Directions for Use
Please register your purchase online by visiting the “My FloLogic” page at www.flologic.com

Date of Purchase/Installation: ________________________________

Installed By: ____________________________________________

Attach receipt here:
This manual covers operation using the local Control Panel. When the optional CONNECT Module is installed, enabling app-based control, changes made through the app will be reflected on the control panel and vice versa.
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™ flow sensing technology can detect leaks in real time beginning at 1/2 ounce per minute. The default flow rate sensitivity has been factory 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 (0.5 minutes). 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 “LEAK”. If connected to a security system or the FloLogic CONNECT Module, the System will communicate the leak event to your security system or through the CONNECT app to notify you of the problem.

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 System is operating correctly and will respond when called upon. No other automatic shut-off system can provide this unique and comforting feature.
Control Panel
BASIC OPERATION

Home Mode
Upon system start-up the Control Panel will read “HOME” indicating that the Home timer is in effect. Unless previously changed, the 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.

Away Mode
When you wish to change to Away mode, press the AWAY key. Unless previously changed, the time limit for the Away mode is 0.5 minutes. 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.

Switches to Away Mode
Flow Indication

When water is flowing (above the DripRate setting) anywhere in a building monitored by FloLogic, a rotating pinwheel will appear on the right side of the display. 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 once the water begins running and will disappear within a few seconds after the water has stopped.

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 for this function is 18 hours and can be changed to a value as low as 1 hour and as high as 99 hours, or this feature can be completely disabled by the user (see Programming Instructions on page 20). When activated, the Control Panel will chirp every 20 seconds.
Clearing Alarms
When either the Home or Away time limits are exceeded, the System will turn off the water, display “LEAK” 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.
BASIC OPERATION (CONTINUED)

Water Shutoff
If you wish to manually turn off the water to the building protected by FloLogic, you can accomplish this by pressing both the NEXT/BYPASS key and the DISABLE key at the Control Panel. When the Valve is closed by this keystroke command, the display will read “WATER.OFF”.

NOTE: Pressing and holding the DISABLE key just prior to touching the NEXT/BYPASS key will ensure you don’t accidentally place the System in Bypass Mode (see Bypass Mode description on page 17).

Restoration of water service is accomplished by simply pressing the HOME key.
SYSTEM COMPONENTS
There are four major components to the FloLogic System:

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

2. **Flow Sensor**
   (“Sensor”)

3. **System Battery and AC Adapter**
   (“Power Supply”)

4. **Keypad and Display**
   (“Control Panel”)

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![Diagram of FloLogic System components](image-url)
SYSTEM COMPONENTS (CONTINUED)

1. Ball Valve and Actuator ("Valve Assembly")
The Valve Assembly is mounted in the 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 or below grade, provided that it is not subject to temperatures below 35 or above 115 degrees F.

The Valve Assembly is comprised of a full-port, lead-free cast bronze valve mated to an actuator enclosed in an IP68 certified water and dust-proof housing. There are three color-coded connectors on the actuator housing:

- Blue for the Flow Sensor
- Black for the 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. In the unlikely event of a complete power loss or a general system failure, this override can be used to manually open or close the Valve (See Manual Override Instructions on back cover).
2. **Flow Sensor ("Sensor")**
The Flow Sensor is directly 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 0.5 ounce per minute, the software controlling the Flow Sensor is factory pre-set with a sensitivity of 2 ounces of flow per minute as the point when the flow timer is initiated. Depending on your specific needs, you can adjust the sensitivity of the Flow Sensor (see **Programming Instructions** beginning on page 20).

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 and debris, such as sand or silt, may shorten the expected life of the Flow Sensor. Water treatment regimens such as filtration and softening may lengthen the life of the Flow Sensor. A replacement Flow Sensor can be ordered from FloLogic at [www.flologic.com](http://www.flologic.com). In addition, FloLogic offers optional extended warranty plans that provide for periodic replacement of this component.
3. System Battery and AC Adapter ("Power Supply")

The Power Supply is comprised of a 12 volt, 6 amp-hour rechargeable, sealed-lead-acid battery connected to an AC adapter. The adapter is connected to the Valve Assembly with a 15-foot cable. The battery and AC adapter must be located in a protected environment such as a crawl space, basement, or in a watertight outdoor enclosure. The Power Supply plugs into a standard grounded AC outlet. The included battery will power the System in the event of an AC power failure. The Power Supply is directly connected to the red color-coded receptacle located on the Valve Assembly.

The length of time the battery will power the System is dependent on several variables, including air temperature and the age of the battery. When new, the standard battery should power the System for a minimum of five days provided the battery is located in an environment with temperatures between 50 and 90 degrees F. When AC power is restored, the battery will gradually recharge. A complete battery discharge due to prolonged power loss will substantially shorten battery life and may necessitate an immediate replacement.

A replacement battery can be purchased in many stores or ordered directly from FloLogic. The replacement Sealed Lead Acid battery should be 12VDC and rated for a minimum of 4.0 Amp Hours (Ah).
4. Keypad and Display ("Control Panel")
The Control Panel is comprised of a keypad with eight keys and a back-lit liquid crystal display (LCD). The Control Panel is the primary user interface for the FloLogic System. All status messages and programming functions are presented at the Control Panel. The Control Panel is connected to the black, color-coded receptacle on the Valve Assembly with the supplied 50-foot cable. Longer cabling and extension cables are available in the event that the Control Panel needs to be located further than 50 feet from the Valve.

Inserted into the top of the Control Panel is a Quick Reference card that provides information on the basic operation of the FloLogic System.
OPERATIONS AND TERMINOLOGY

Drip Rate
The Drip Rate allows the user to change flow detection sensitivity to ignore persistent low-use water demand from appliances such as humidifiers as well as known “nuisance leaks” such as leaky toilet valves. The System ships with a pre-set Drip Rate of 2 ounces per minute and can be set anywhere from 0.5 to 32 ounces per minute. Based on your plumbing system, you can modify the Drip Rate setting to a higher or lower sensitivity threshold. The System does not start the Home or Away timers until the Drip Rate is exceeded and flow timers are reset when the flow of water drops below the Drip Rate setting.

When flow exceeds the Drip Rate settings, the LCD will show a rotating pinwheel on the right side of the display. Other than that, this feature operates continuously in the background. To check or change the settings for this feature, refer to the Programming Instructions on page 20.

NOTE: Use caution when changing the Drip Rate value. Lowering the Drip Rate can result in frequent “false alarms.” Raising the Drip Rate will allow significant volumes of water to flow uncontrolled into your home or business. See the reference table on page 42 for Drip Rate water flow equivalents over daily, monthly, and annual periods.
Home Mode

The Home mode is designed to be used when the structure is occupied. The Home mode is pre-set to allow 30 minutes of uninterrupted water flow before shutting off the water. If desired, this time can be changed to a value as low as 1 minute and as high as 99 minutes (see Programming Instructions on page 20). When in any state other than Home (Away, Bypass, Water Off), the Home mode may be activated by a single press of the HOME key on the keypad. When the System is in the Home mode, the LCD will read “HOME”.

Away Mode

The Away mode is typically used when the structure is unoccupied. The Away mode is pre-set to allow 0.5 minutes (30 seconds) of uninterrupted water flow before shutting off the water. If desired, this time can be changed to a value as low as 0.1 minutes or as high as 99 minutes. Away may also be set to turn off the water when they Away mode is activated (see Programming Instructions on page 20). When in any state other than Away, the Away mode may be activated by a single press of 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).
Delay Away

When activated through the programming menu, this feature delays the start of the Away mode for a preset time limit. This is useful for those who may wish to start a plumbing appliance such as a laundry machine or a dishwasher 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 place itself into the Away mode. The System is preprogrammed with Delay Away set to OFF. This delay time can be set to any value from OFF up to 99 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 “D. AWAY XX”, with XX representing the time remaining in the delay interval. To change this feature, refer to Programming Instructions on page 20.
Bypass
The Bypass function provides a simple way to temporarily disable the flow timers. Bypass permits an extended 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. Factory pre-set at 120 minutes, the Bypass timer has a range of 1 to 999 minutes (16 hrs 39 mins). When the System is in Home or Away mode, this feature is activated by pressing the NEXT/BYPASS key on the keypad. 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. To change the time limit for this feature refer to Programming Instructions beginning on page 20.
Automatic Away

Automatic Away places the System into Away mode after no significant water flow has been detected for an extended period of time. Factory pre-set at 18 hours, this can be changed to activate the Away mode as soon as 1 hour or as long as 99 hours 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. If the System reverts to Auto Away even though water has been running, a flow sensor replacement may be needed. When in Auto Away, the Control Panel will chirp every 20 seconds. Press the DISABLE key to silence. To change the settings for this feature, refer to Programming Instructions beginning on page 20.
Control Panel Sounds
The Control Panel uses audible beeps to notify users about the presence of certain conditions such as Leak Alarms and System Troubles. User interaction is normally required to turn off the beeper for any given event. Without the user intervention, 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 wish to silence the beeps, they may be disabled. See the Programming Instructions on page 20 for details on changing this setting.

Powering Options
While the System is designed to operate using AC power with a Battery back-up, 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 on page 20 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 table shows the default settings as well as valid ranges for all of the programmable System features:

<table>
<thead>
<tr>
<th>Programmable Feature</th>
<th>Default Setting</th>
<th>Programmable Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Rate flow sensitivity</td>
<td>2 ounces per minute</td>
<td>0.5 to 32 ounces per minute</td>
</tr>
<tr>
<td>Home mode limit</td>
<td>30 minutes</td>
<td>1 to 99 minutes</td>
</tr>
<tr>
<td>Away mode limit</td>
<td>0.5 minutes (30 seconds)</td>
<td>W.OFF to 99 minutes</td>
</tr>
<tr>
<td>Delay Away time</td>
<td>0 minutes (OFF)</td>
<td>0 (OFF) to 99 minutes</td>
</tr>
<tr>
<td>Bypass time</td>
<td>120 minutes</td>
<td>1 to 999 minutes</td>
</tr>
<tr>
<td>Auto Away time</td>
<td>18 hours</td>
<td>1 to 99 hours, OFF</td>
</tr>
<tr>
<td>Sounds</td>
<td>On</td>
<td>On - Off</td>
</tr>
<tr>
<td>Power mode</td>
<td>AC Power</td>
<td>AC Power - Battery Only</td>
</tr>
</tbody>
</table>

Any changes you make in the default settings should be noted in the **My Settings** section of this book on page 41.
The programming menu can be accessed when the display reads “HOME”. To enter the Program mode, simultaneously press the ACCEPT/EXIT key and the PROG key on the Control Panel. The display will read “PROGRAM”. Pressing the NEXT/BYPASS key will scroll through the programming menu as follows:

1. DRIP.RATE alternates with X.X OZ/MIN
2. HOME XX – XX represents minutes
3. AWAY XX – XX represents minutes
4. D.AWAY XX – XX represents minutes
5. BYPASXXX – XXX represents minutes
6. A.AWAY XX – XX represents hours
7. SOUND.XXX - XXX represents ON or OFF
8. AC.POWERD or BATT.ONLY

When in the Program mode, pressing the NEXT/BYPASS key will take you to the next programmable feature without changing the value for the current feature. **You must press the ACCEPT/EXIT key to save any changes.**

After making changes, the new value will flash on and off, indicating it has not been saved. Pressing the ACCEPT/EXIT key will update the program with the new value. “ACCEPTED” will briefly appear on the display and the new value will stop flashing, indicating it has been saved. To change more than one item, press the NEXT/BYPASS key to move 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.

WARNINGS:
The System has a pre-set 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 “false alarms”. Decreasing the sensitivity by raising this to a higher number can result in prolonged, chronic water use that is either running down the sewer or leaking somewhere out of sight.

HOW TO CHANGE THE DRIP RATE:
1. Prior to changing the Drip Rate, check that all faucets are off and no toilets are running. Follow the steps on page 21 to get into the Program mode and scroll to the Drip Rate screen using the NEXT/BYPASS key.
2. When the display reads “DRIP.RATE” and alternates with “X.X OZ/M”, you can either A. Query the System to show how much water is flowing or B. Adjust the Drip Rate value manually. (The table found on page 42 shows how much each Drip Rate value equates to in water usage over time).

A. Automatic Drip Rate (Query the System): When on the Drip Rate screen, to sample the water flow currently running in the building, press the PROG key. The display will change to show the volume of water flowing through the sensor in ounces per minute. If the detected flow exceeds 32 ounces per minute, the display will read “INVALID”.

- To change the Drip Rate to accommodate the expressed value, press the ACCEPT/EXIT key.
- To exit the Drip Rate programming menu without making changes and move to the next programmable feature (Home timer), press the NEXT/BYPASS key and then the ACCEPT/EXIT key (see the following page for instructions on changing the Drip Rate manually).
B. Manually programming the Drip Rate: As a second option, you can manually raise or lower the Drip Rate threshold by pressing **UP** or **DN** keys on the keypad.

- **To accept** changes, press the **ACCEPT/EXIT** key. This will store the new Drip Rate value in the program.

- **To exit** the Drip Rate programming menu **without making changes** and move to the next programmable feature (Home timer), press the **NEXT/BYPASS** key.
25.

Home Setting

1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “HOME XX” screen.

2. The XX will be a number between 1 and 99 (minutes) with the default setting at 30 (minutes), representing 30 minutes of uninterrupted flow in the Home mode. To increase or decrease this value, press the UP or DN key to scroll to the desired number of minutes.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Home timer value in the program.

   • To exit the Home timer programming menu without making changes and move to the next programmable feature (Away timer), press the NEXT/BYPASS key.
PROGRAMMING INSTRUCTIONS (CONTINUED)

Away Setting
1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “AWAY XX” screen.

2. The XX will either be a number between 0.1 and 99 (minutes) or the display will read AWY W.OFF meaning the water will be turned off when the Away mode is active. The default setting is 0.5 (minutes), representing 30 seconds of allowable flow in the Away mode. To increase or decrease this value, press the UP or DN key to scroll to the desired number.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Away timer value in the program.

   • To exit programming without making changes and move to the next programmable feature (Delay Away timer), press the NEXT/BYPASS key.
Delay Away Setting

1. After you have entered the Program menu, press the **NEXT/BYPASS** key to scroll to the “**D.AWAY XX**” screen.

2. The **XX** will be a value between **OFF** and **99 minutes** with the default setting at **OFF**. Setting a value above **OFF** will delay the switch to the Away mode each time the Away mode is activated. If you wish to raise or lower this value, press the **UP** or **DN** key to scroll to the desired number of minutes.

   - To accept this change, press the **ACCEPT/EXIT** key. This will store the new Delay Away timer value.

   - To exit the Delay Away timer menu without making changes and move to the next programmable feature (Bypass timer), press the **NEXT/BYPASS** key.

**NOTE:** During the Delay Away interval, the Home flow timer will be in effect. After the Delay Away interval has expired, the Away timer will be in effect. The Delay Away timer will be active when the System is placed in Away mode.
Bypass Setting

1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “BYPAS XXX” screen.

2. The XXX will be a number between 1 and 999 (minutes) with the default setting at 120 (minutes). If you wish to raise or lower this value, press the UP or DN key to scroll to the desired number of minutes.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Bypass timer value.

   • To exit the Bypass timer menu without making changes and move to the next programmable feature (Auto Away timer), press the NEXT/BYPASS key.
Auto Away Setting

1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “A.AWAY XX” screen.

2. The XX will be a value between 1 and 99 (hours) or OFF with the default setting at 18 (hours). If you wish to raise or lower this value, press the UP or DN key to scroll to the desired number of hours.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Auto Away value in the program.

   • To exit the Auto Away menu without making changes and move to the next programmable feature (Auto Away timer), press the NEXT/BYPASS key.

NOTE: With Auto Away set to OFF, the System never automatically switches itself into the Away mode and detection of a failed flow sensor will be diminished.
Sound Setting

1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “SOUND.XXX” screen.

2. The XXX will be a value of ON or OFF with the default setting at ON. If you wish change this setting, press the UP or DN key to the desired value.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Sound value in the program.

   • To exit the Auto Away menu without making changes and move to the next screen (Power), 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.
Sound Setting
1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “SOUND.XXX” screen.

2. The XXX will be a value of ON or OFF with the default setting at ON. If you wish change this setting, press the UP or DN key to the desired value.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Sound value in the program.

   • To exit the Auto Away menu without making changes and move to the next screen (Power), 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.

Power Source Setting
1. After you have entered the Program menu, press the NEXT/BYPASS key to scroll to the “AC.POWERD” or “BATT.ONLY” screen.

2. If you wish to change this setting, press the UP or DN key to the desired value.

   • To accept this change, press the ACCEPT/EXIT key. This will store the new Power Source value in the program.

   • To exit the Auto Away menu without making changes and move to the next screen (EXIT?), press the NEXT/BYPASS key.

NOTE: Battery Only mode disables any alarms associated with the loss of AC power. The user will be responsible for ensuring the power source is always available and charged up regularly.
Exit Programming

To exit the programming mode when the LCD indicates “EXIT?”, press the ACCEPT/EXIT key. This will exit you from programming without making any changes and return the System to Home mode.

To scroll back to the top of the programming menu, press the NEXT/BYPASS key.
**DISABLING / RE-ENABLING SYSTEM**

To disable the System so it is not actively monitoring leaks, simultaneously press the **PROG** and **DISABLE** keys. The screen will read **DISABLE?**. Press the **ACCEPT/EXIT** key within three seconds to disable. The screen will read **DISABLED**.

To re-enable the System when the display reads **DISABLED**, simultaneously press the **PROG** and **DISABLE** keys. The screen will read **ENABLE?**. Press the **ACCEPT/EXIT** key within three seconds. The display will read **HOME**.
FLOW SENSOR TEST *(PERFORM SEMI-ANNUALLY)*

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

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, your sensor will need to be replaced. **Call FloLogic at (877) 356-5644** for a replacement.
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## OPERATIONAL MODE MESSAGES – DISPLAYED DURING NORMAL OPERATION

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<thead>
<tr>
<th>Mode</th>
<th>Status Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HOME</strong></td>
<td>Home setting in effect</td>
<td>Press <strong>AWAY</strong> to activate Away mode</td>
</tr>
<tr>
<td><strong>AWAY</strong></td>
<td>Away setting in effect</td>
<td>Press <strong>HOME</strong> to exit Away mode</td>
</tr>
<tr>
<td><strong>AWY W.OFF</strong></td>
<td>Away mode selected, water is off</td>
<td>Press <strong>HOME</strong> to exit Away mode</td>
</tr>
<tr>
<td><strong>D.AWAY XX</strong></td>
<td>Home setting in effect. System will automatically switch to Away after XX minutes</td>
<td>Press <strong>HOME</strong> to exit from Delay Away</td>
</tr>
<tr>
<td><strong>BYPASS or EXT. BYPASS</strong></td>
<td>Bypass mode is active and the Home and Away timers are temporarily disabled</td>
<td>System will revert to Home or Away mode after Bypass interval expires. Press <strong>HOME</strong> to manually exit Bypass mode</td>
</tr>
<tr>
<td><strong>OVERRIDE</strong></td>
<td>System is overridden by external device such as an irrigation system</td>
<td>Wait for external device to finish cycle</td>
</tr>
<tr>
<td><strong>WATER.OFF</strong></td>
<td>Water has been turned off at Control Panel</td>
<td>Press <strong>HOME</strong> to restore water.</td>
</tr>
<tr>
<td><strong>DISABLED</strong></td>
<td>System is disabled</td>
<td>Press <strong>PROG+DISABLE</strong> then <strong>ACCEPT</strong> to re-enable system</td>
</tr>
<tr>
<td><strong>LEAK</strong></td>
<td>HOME or AWAY time limit exceeded. Water turned off</td>
<td>Press <strong>DISABLE</strong> to silence the audible alarm then <strong>HOME</strong> to restore water</td>
</tr>
<tr>
<td><strong>EXT. LEAK</strong></td>
<td>External device instructed FloLogic to turn off water. Water turned off</td>
<td>Clear condition on external device. Press <strong>DISABLE</strong> to silence and <strong>HOME</strong> to restore water</td>
</tr>
<tr>
<td><strong>AUTO.AWAY</strong></td>
<td>Away mode auto-activated. No water flow above Drip Rate for Auto Away interval.</td>
<td>Press <strong>DISABLE</strong> to silence chirp or <strong>HOME</strong> to exit Away mode. IF NEEDED, CHECK FLOW SENSOR (see page 34)</td>
</tr>
</tbody>
</table>
# ATTENTION REQUIRED - ERROR NOTIFICATION MESSAGES

<table>
<thead>
<tr>
<th>Message</th>
<th>Description</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC LOST</td>
<td>AC power supply interrupted and system is operating on battery</td>
<td>Check circuit breaker to AC outlet and make sure power supply is plugged in, check GFI AC outlet. Alarm clears when AC power restored</td>
</tr>
<tr>
<td>SYS.DOW / CHG BATT</td>
<td>Valve inoperable typically due to missing or discharged battery</td>
<td>Check / Replace battery. Press <strong>DN</strong> key till beeping stops. Valve will cycle after a few seconds and error will clear if battery good.</td>
</tr>
<tr>
<td>VAL.FAIL</td>
<td>Valve unable to detect open/closed position or does not rotate on power-up</td>
<td>Call 877-356-5644 for assistance</td>
</tr>
<tr>
<td>COMM ERR</td>
<td>Keypad and valve not communicating</td>
<td>Call 877-356-5644 for assistance</td>
</tr>
<tr>
<td>STND DN</td>
<td>Interruption in power signal detected</td>
<td>Check Power Supply AC outlet. Replace Battery. Press <strong>DN</strong> key till beeping stops.</td>
</tr>
<tr>
<td>LO BATT</td>
<td>Battery unable to hold charge and needs replacement</td>
<td>Connect new battery. Press <strong>DN</strong> key till beeping stops. Valve will cycle after a few seconds.</td>
</tr>
</tbody>
</table>
### PROGRAMMING MESSAGES – DISPLAYED ONLY WHEN IN PROGRAM MODE

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>Description</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DRIP.RATE</strong></td>
<td>Alternates with XX OZ/MN. XX is current Drip Rate setting (in ounces per minute)</td>
<td>Press <strong>NEXT/BYPASS</strong> to go to Drip Rate or <strong>ACCEPT/EXIT</strong> to exit.</td>
</tr>
<tr>
<td><strong>HOME XX</strong></td>
<td>XX is current Home mode timer setting (in minutes)</td>
<td>Press <strong>UP/DN</strong>, then press <strong>ACCEPT/EXIT</strong> to change or <strong>NEXT/BYPASS</strong> to go to Away setting.</td>
</tr>
<tr>
<td><strong>AWAY XX or AWY W.OFF</strong></td>
<td>XX is current Away mode timer setting (in minutes). W.OFF means water will be turned off when in Away mode</td>
<td>Press <strong>UP/DN</strong>, then press <strong>ACCEPT/EXIT</strong> to change or <strong>NEXT/BYPASS</strong> to go to Delay Away setting.</td>
</tr>
<tr>
<td><strong>D.AWAY XX or D.AWAY.OFF</strong></td>
<td>XX or OFF is current Delay Away timer setting (in minutes)</td>
<td>Press <strong>UP/DN</strong>, then press <strong>ACCEPT/EXIT</strong> to change or <strong>NEXT/BYPASS</strong> to go to Bypass setting.</td>
</tr>
<tr>
<td><strong>BYPASXXX</strong></td>
<td>XXX is current Bypass timer setting (in minutes)</td>
<td>Press <strong>UP/DN</strong>, then press <strong>ACCEPT/EXIT</strong> to change or <strong>NEXT/BYPASS</strong> to go to Auto Away setting.</td>
</tr>
<tr>
<td><strong>A.AWAY XX</strong></td>
<td>XX is current Auto Away timer setting (in hours)</td>
<td>Press <strong>UP/DN</strong>, then press <strong>ACCEPT/EXIT</strong> to change or <strong>NEXT/BYPASS</strong> to go to program Exit.</td>
</tr>
<tr>
<td><strong>SOUND.XXX</strong></td>
<td>XXX is the current Sound setting (ON or OFF)</td>
<td>Press <strong>UP/DN</strong>, then <strong>ACCEPT/EXIT</strong> to exit programming or <strong>NEXT/BYPASS</strong> to go to Power mode setting</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>AC.POWERD or BATT.ONLY</strong></td>
<td>AC powered normally. Battery powered when an external battery charging source is used such as solar</td>
<td>Press <strong>UP/DN</strong>, then <strong>ACCEPT/EXIT</strong> to exit programming or <strong>NEXT/BYPASS</strong> to go to Exit program</td>
</tr>
<tr>
<td><strong>EXIT?</strong></td>
<td>End of Program menu</td>
<td>Press <strong>ACCEPT/EXIT</strong> to exit programming or <strong>NEXT/BYPASS</strong> to return to initial screen in program menu</td>
</tr>
</tbody>
</table>
# EXTERNAL CONTACT CLOSURE MESSAGES
(Resulting from external devices connected to FloLogic keypad via dry contacts on TB2 or TB3)

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXT AWAY</strong></td>
<td>Away timer activated by external device such as a home security system</td>
<td>Deactivate external system to return to Home mode</td>
</tr>
<tr>
<td><strong>EXT LEAK</strong></td>
<td>External system or device requested water shutoff. Water is turned off at Valve</td>
<td>After clearing external alarm condition, press DISABLE to silence alarm then HOME to restore water service</td>
</tr>
<tr>
<td><strong>EX.BYPASS</strong></td>
<td>External device such as a water softener has initiated Bypass mode. Home and Away timers are temporarily disabled</td>
<td>System automatically reverts to Home or Away mode after Bypass interval expires. Press and hold HOME key to force exit from Bypass mode</td>
</tr>
<tr>
<td><strong>OVERRIDE</strong></td>
<td>External device such as a water softener has disabled the Home and Away timers</td>
<td>System automatically reverts to Home or Away mode when external system opens contacts</td>
</tr>
</tbody>
</table>
## MY SETTINGS

<table>
<thead>
<tr>
<th>Programmable Feature</th>
<th>Default Setting</th>
<th>Enter Your Settings Here.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drip Rate flow sensitivity</td>
<td>2.0 oz. per minute</td>
<td></td>
</tr>
<tr>
<td>Home mode limit</td>
<td>30 minutes</td>
<td></td>
</tr>
<tr>
<td>Away mode limit</td>
<td>0.5 minutes (30 seconds)</td>
<td></td>
</tr>
<tr>
<td>Delay Away time</td>
<td>0 minutes (OFF)</td>
<td></td>
</tr>
<tr>
<td>Bypass time</td>
<td>120 minutes</td>
<td></td>
</tr>
<tr>
<td>Auto Away time</td>
<td>18 hours</td>
<td></td>
</tr>
<tr>
<td>Sounds</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>Power mode</td>
<td>AC Powered</td>
<td></td>
</tr>
</tbody>
</table>
This table gives you a perspective of how each Drip Rate value equates to gallons of water over time.

<table>
<thead>
<tr>
<th>OZ / MINUTE</th>
<th>GAL / DAY</th>
<th>GAL / MONTH</th>
<th>GAL / YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>11.25</td>
<td>337</td>
<td>4,106</td>
</tr>
<tr>
<td>2.0</td>
<td>22.5</td>
<td>675</td>
<td>8,212</td>
</tr>
<tr>
<td>4.0</td>
<td>45</td>
<td>1,350</td>
<td>16,425</td>
</tr>
<tr>
<td>6.0</td>
<td>67.5</td>
<td>2,025</td>
<td>24,637</td>
</tr>
<tr>
<td>8.0</td>
<td>90</td>
<td>2,700</td>
<td>32,850</td>
</tr>
<tr>
<td>12.0</td>
<td>135</td>
<td>4,050</td>
<td>49,274</td>
</tr>
<tr>
<td>16.0</td>
<td>180</td>
<td>5,400</td>
<td>65,700</td>
</tr>
<tr>
<td>20.0</td>
<td>225</td>
<td>6,750</td>
<td>82,120</td>
</tr>
<tr>
<td>24.0</td>
<td>270</td>
<td>8,100</td>
<td>98,548</td>
</tr>
<tr>
<td>28.0</td>
<td>315</td>
<td>9,450</td>
<td>113,400</td>
</tr>
<tr>
<td>32.0</td>
<td>360</td>
<td>10,800</td>
<td>129,600</td>
</tr>
</tbody>
</table>

Based on EPA statistics, the average home in the USA has plumbing leakage averaging 2.5 oz / minute. This is equivalent to 10,000 gallons annually per home or over 1 Trillion gallons nationally.

42.
QUICK REFERENCE

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

Restore Water Service After a Leak - Press DISABLE to silence alarm (if needed) then HOME to turn on water

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

Disable System / Reactivate System - Press both PROG+DISABLE then ACCEPT to disable / enable the FloLogic System

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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info@flologic.com
877-FloLogic (877-356-5644)