

WaterCop

EMERGENCY SHUT-OFF LEAK DETECTION SYSTEM

INSTRUCTIONS

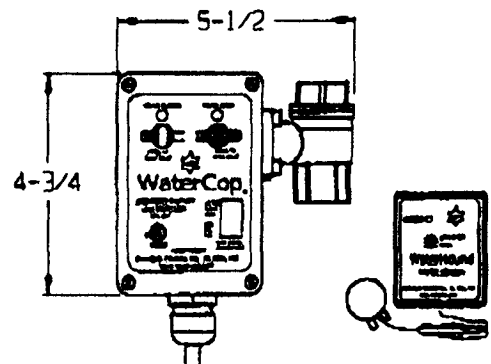
Please read these instructions carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Description

WaterCop is a motorized ball valve, used to automatically turn off the main water supply when unwanted water is detected due to a leak or overflow.

Specifications

Max. working pressure.....	125 PSIG
Ambient temperature.....	35°F to 105°F
Enclosure.....	polycarbonate
Voltage.....	115V, 1Phase, 60Hz
Current.....	2.5 Amps
Power input: Standby.....	1.375W
Holding (2.5 seconds).....	75W
Power cord.....	8 ft. Heavy-duty grounded
Full-Port ball valve.....	3/4 NPT
Valve construction.....	Brass
Seals.....	PTFE



General Safety Information

WARNING

Do not apply electrical power to the unit unless the unit is fully assembled and mounted. Failure to do so could result in personal injury and/or damage to the unit.

Disconnect power source before working on the unit. Failure to do so could result in personal injury.

CAUTION

It is recommended that eye protection be worn while servicing the system. Failure to do so could result in personal injury.

WARNING

The motorized drive unit case is not capable of supporting any loads. Do not attempt to use the unit as a step. This will cause damage to the unit and could cause personal injury. Do not use in hazardous locations.

CAUTION

Do not use the case as leverage when mounting this unit or tightening fittings. Apply wrench to flats on the valve body to tighten fittings.

INSTALLATION

The WaterCOP valve should be installed in the main water line just downstream from the main shut-off valve in your home. The valve should be installed by a licensed plumber, in accordance with local plumbing codes. The power cord must be plugged into a properly grounded power source (115 VAC).

The remote water sensors are battery powered radio transmitters. Open battery compartment and install 2 fresh (AA size) alkaline batteries into each sensor in accordance with the (+,-) placement guide.

Place sensors in areas where water would tend to accumulate rapidly, should there be a common leak problem with the plumbing system. Examples are; under the water heater, in cabinets below bathroom or kitchen sinks, under washing machines, dishwashers, ice makers or under water pipes that have a potential of freezing in cold weather.

Locate a wall near the area you wish to monitor. (Avoid high traffic areas where cord or sensor could be kicked or stepped on.) Mount transmitter on the wall, two to three feet above the floor. Use hook and loop fastener included with the unit. Unwind cord and place the sensor on floor in area to be monitored. Be sure that the sensor is placed flat on the floor so water can be detected as soon as it begins to accumulate.

Test

After the unit is installed and transmitters are mounted, the following test should be performed.

1. Plug unit into power source.
2. Make sure the valve is in the open position (green indicator light). If the valve is closed, press button to open valve.
3. Test each transmitter by dropping the sensor probe into a cup of water. This should send a signal to the control valve and turn the water off. Reset valve to open position and repeat test with each transmitter.
4. If the unit does not turn the water off, check that the batteries are good and they are installed properly. Repeat test.
5. If the unit still does not function properly, check the digital code settings. (see instructions for changing digital codes)
6. When all transmitters are functioning properly your WaterCOP system is on duty to help protect your home from damage due to plumbing leaks.

OPERATION

The normal position of the valve is full open to allow flow throughout the plumbing system. The indicator lights will show the position of the valve. If the valve is in the closed position (the red light will be lit) press the 'open' button and the valve will move to the open position (green indicator will light).

When a sensor detects water, a RF (radio frequency) signal is transmitted to the WaterCOP and the valve turns the water off to protect the building from additional water damage. The red indicator light will signal that the valve is in the closed position and that you need to check all areas that have a sensor to determine what caused the unit to cycle. The valve remains closed until the unit is reset at the valve control box.

After the plumbing problem is fixed, reset the WaterCOP by pressing the 'open valve' button on the face of the control box. Valve will open and green indicator will light.

Note: If major repairs are needed to correct the plumbing system, it is recommended that the manual shut-off valve upstream of the WaterCOP also be closed during the repairs.

Note: In case of power failure, the control unit cannot operate the valve. If power is out you will need to use the manual shut-off valve to turn water off in case of emergency. When power is restored, the control unit will remember the valve position and indicate that position with the proper light.

Battery Life

Under normal conditions (standby mode) the batteries should last about one year. Each transmitter has a low battery signal (chirp). Replace batteries at least annually or when signal is detected. If you are away from home for long periods of time, transmitters should be tested upon your return to ensure proper function.

Changing Digital Codes

Codes on all control units and transmitters are set at the factory and should not need to be altered. If you use other wireless products in your home, (garage door openers etc.) there is a slight chance of interference with the signal. The following instructions will aid in resetting the code.

Warning: All transmitters and the control unit must have the same code setting!!!

Changing the receiver code:

- 1) Disconnect power to receiver unit by unplugging power cord.
- 2) Remove cover using the 4 screws located in the corners of the cover.
- 3) Locate code switch block (see illustration). Switches are numbered 1 through 6.
- 4) Arrange the switches in any combination (up or down position). Write down the code combination you selected. Example 1-up, 2-down, 3-down, 4-up, 5-down and 6-up.
- 5) Reinstall cover. Carefully tuck wires completely into case and hold cover in position while tightening screws.
- 6) Reconnect power by plugging the power cord into power receptacle.

Changing the transmitter code:

- 1) Remove transmitter cover (loosen two screws).
- 2) Locate code switch block (illustrated below). Switches are numbered 1 through 6.
- 3) Arrange the switches in the exact combination as the code you put in the receiver. It is important that the exact code be set in receiver and all transmitters. If the codes are different the unit will not function properly.
- 4) Reinstall cover. Repeat this procedure for all transmitters.
- 5) Test each transmitter to ensure that the unit is functioning properly.
- 6) If not, verify that all codes are set the same.

Note:

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation.

The water sensors only transmit a radio signal during test and when contact is made between the probes as when water is detected. This signal is of a 2-second duration and is repeated approximately every 6 seconds while activated. This 2 second signal should be the only time potential interference could be detected.

If you suspect the unit is interfering with your radio and/or television reception on a prolonged basis, remove batteries from all transmitters to determine if this unit is causing the interference. If so, please consult your dealer.

