



# Installation Manual

FM-080

## Operation and Installation Instructions for FloodMaster Total Water Main Leak Detection Alarm/Shutoff System – Model FM-080 Series

**CAUTION: DO NOT PLACE FINGERS OR ANYTHING INSIDE THE VALVE PORTS. DOING SO CAN RESULT IN THE LOSS OF FINGER AND/OR DAMAGE TO THE VALVE.**

### System Overview:

The FM-080 Series Total Water Main Leak Detection Alarm Shutoff System is designed to sound an audible alarm and shut down the water feed line when the sensor puck comes in contact with conductive liquid (such as water). The unit requires a 110VAC wall outlet for power and provides an easy reset button. In the event the alarm activates, locate the source of the leak, remove the sensor puck from the water and dry the metal contacts at the bottom of the sensor puck. Correct the problem causing the leak and place the sensor puck in the desired leak detection location once again as required. Press and release the reset button on the alarm box to open the valve and begin the flow of water again. The green power ON/OFF indicator light on the alarm box will flash once to confirm the reset. All units provide an optional connection to a home security alarm system or control panel. Additional sensor pucks can be added to the system where a wider area of leak detection is required.

Actual models may vary.



### Installation Instructions:

1. Turn off the water supply to the building.
2. Cut the water line after the water shut-off valve.
3. Solder female plumbers union to each end of the supply line.
4. Create adapter by soldering a plumbers union to one end of a 3" section of tubing and an NPT adapter on the other end.
5. Apply pipe sealant or Teflon® tape to the NPT threads and tighten the adapter into both ends of the valve (valve is bi-directional and can be plumbed with the "in" as either side of the valve).
6. Line up both unions and tighten.
7. Open water supply and inspect for leaks.
8. Attach the electrical connector on the valve to the mating connector on the FloodMaster alarm box.
9. Place the sensor puck on the floor or in the area where the potential flooding may occur and leak detection is desired (examples: base of washing machine, hot water heater, under sink, etc.). It is recommended that a bead of silicone be laid on the floor that encircles the protected area.
10. For multi-sensor units, place the sensors in the desired locations and connect all the sensors to the terminal strip located on the side of the alarm box, following the same wiring scheme as the original puck.
11. Mount the alarm box to the wall at least 6" off the ground.
12. DO NOT PUT FINGER INSIDE THE VALVE PORTS. Plug the transformer into a 110VAC outlet. The green power ON/OFF indicator light on the alarm box will turn on.
13. Function Test:
  - a. Place the sensor puck on a wet paper towel.
  - b. The audible alarm will sound and the valve will rotate closed.
  - c. Remove the sensor puck from the paper towel and dry off the steel pins located on the bottom of the puck.
  - d. Open water faucet and inspect for water flow. There should be no water flow.
  - e. Press and release the reset button on the alarm box to open the valve and begin the flow of water again. The green power ON/OFF indicator light on the alarm box will flash once to confirm the reset.
  - f. Inspect faucet for water flow.
  - g. Repeat steps a-f for each sensor puck on the system.

### Maintenance:

Exercise (press and release) the reset button on the alarm box annually to ensure correct operation and to maintain product warranty status.

### Optional Features and Connections:

**Additional Sensor Pucks** – For applications where a wider area of leak detection coverage is desired, additional sensor pucks can be added to the system. Wire additional sensor pucks to the terminal strip along the side of the alarm box, following the same wiring pattern of the original puck. Additional sensor pucks are sold separately; custom wire lengths available.

**Security Alarm Connection** – Use for applications where connection to a home security system or control panel is desired. This dry contact relay signal can be wired per your application requirements as follows:

- Red/White – Normally Closed Circuit
- Black/White – Normally Open Circuit

