



# Installation Manual

## RS-094-MK7

### WITH GAS SHUT-OFF CABLE FOR CONVENTIONAL VENT WATER HEATERS

#### Operation and Installation Instructions for FloodMaster RS-094 Water Heater Leak Detection Alarm/Shut-Off Systems with Gas Shut-Off Interface Cable

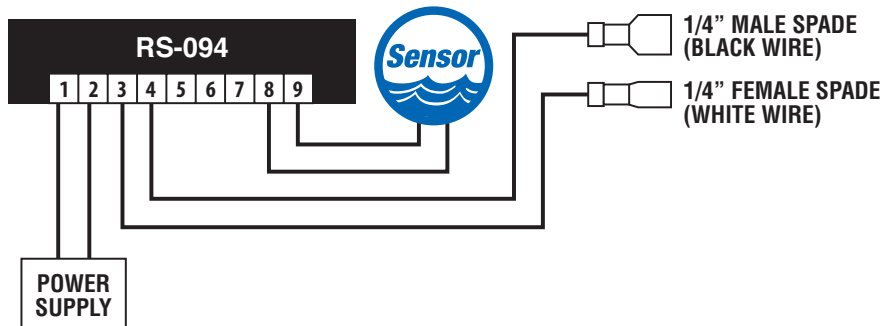
The RS-094 series of Feed Water (Water Heater) Leak Detection and Shut-Off Systems is designed to monitor and respond immediately to water leaks. When a sensor comes in contact with as little as a 1/16" of water (or any other conductive liquid), it will automatically sound an audible alarm and close the valve to shut down the water feed line, thus mitigating damage caused by an undetected water leak. This kit also provides the capability to cut off the pilot light signal to shut down gas flow to the tank's burner when a leak is detected, as may be required by some local codes. Installation of this device should only be performed by appropriately licensed and certified installers.



#### OPERATION:

In the event the system activates, locate the source of the leak, remove the sensor from the water and dry the metal contacts on the bottom. Correct the problem causing the leak and replace the sensor in the desired leak detection location once again as required. Press and release the reset button on the receiver to open the valve and begin the flow of water and gas again.

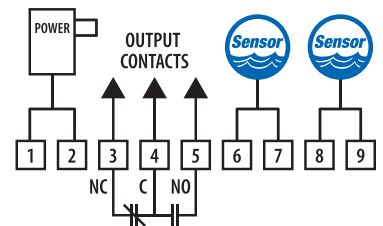
#### RS-094-MK7 Kit Pre-Wired at the Factory



#### INSTALLATION INSTRUCTIONS:

(FloodMaster recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed).

1. Turn off the water supply feed line to the water heater.
2. Thread the valve body into the feed water line after the manual shut-off. Apply pipe sealant or Teflon® tape to the NPT threads and tighten.
3. The receiver connector comes pre-wired with basic connections to the power supply, sensor and gas shut-off interface cable. Using an appropriate screwdriver, make any additional electrical connections as may be desired for output contacts or additional sensors per the diagram provided. (Note: Additional sensors can be connected to either 6 & 7 or 8 & 9, as wiring space allows.) Snap the terminal wiring block into the receiver housing at the mating slot provided.



(Continued – See reverse.)



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4. Secure the valve body in one hand and snap the receiver into place on the valve body mounting pad.  
(*Note: Improper alignment of the valve stem may interfere with proper receiver mounting. If any resistance is encountered, confirm that the witness mark on the valve stem is in alignment with the ports of the valve. Use an appropriate hand tool, such as pliers, to clamp down on the valve stem and turn in the appropriate direction until the desired position is achieved.*)
5. Shut off the gas supply and shut down the water heater per the water heater manufacturer's instructions.
6. Disconnect one wire from the thermocouple on the water heater.
7. Connect the female 1/4" spade connector (white wire) to the thermocouple switch.
8. Connect the male 1/4" spade connector (black wire) to the system wire that was previously disconnected.
9. Plug the power transformer into an 120 VAC wall outlet. The green Power indicator light on the receiver will turn on.
10. Turn on the gas supply and light the pilot on the water heater per the water heater manufacturer's instructions. Open the water supply feed line.
11. **Function Test the system as follows:**
  - a. Place the sensor on a wet paper towel.
  - b. The audible alarm will sound and the water valve will rotate to the closed position. The Shut-Off Interface Cable will also respond to close down the gas flow to the water tank.
  - c. The red Valve Closed LED will turn on when the valve is completely closed (approximately 45-second cycle time). Open a hot water faucet and inspect for absence of water flow. There should be no flow. Confirm deactivation of the gas.
  - d. Remove the sensor from the paper towel, dry the contact points and place the sensor back in the desired location on the floor.
  - e. Press and release the Reset button on the RS-094 receiver to open the valve and begin the flow of water again (approximately 45 seconds to fully open position). Relight the water heater pilot and confirm gas flow to the water heater.
  - f. Open a hot water faucet and inspect for water flow.

### MAINTENANCE:

We recommend an annual test of the unit to ensure proper function. See *Function Test* instructions above. At a minimum, users should exercise (press and release) the reset button on the receiver annually to ensure correct operation and to maintain product warranty status.



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