



RS-096-MK6

- BY -

RDT
RELIANCE
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Plenum-Rated Water Leak Detection / HVAC & AC Condensate Pan Overflow Alarm with Step-Down Transformer & Plenum-Rated Wires

Congratulations on your purchase of a FloodMaster RS-096-MK6 plenum-rated plumbing leak detection and HVAC/AC condensate pan overflow alarm from Reliance Detection Technologies. This product is designed to alert you if a leak or near overflow condition is detected.

To ensure proper installation and to maximize the performance of your RS-096-MK6 water leak detection system, please read this manual thoroughly before installing or operating the system.

NOTE: This installation and operating manual contains important information about the operation of the RS-096-MK6 system. If this system is being installed for use by a different user, please be sure a copy of this manual is left with the system for future reference.



Warning: For indoor use only.

www.RelianceDetection.com

Toll-Free: 888-771-4929

RS-096-MK6 System Components (included in kit):

- | | |
|--------------------------------------|---|
| 1 – Receiver box | 1 – Step-down transformer (120, 208, 240V AC to 24V AC) and mounting plate |
| 1 – Water sensor with 8' lead wire | |
| 1 – Metal plate for sensor placement | |

INSTALLATION INSTRUCTIONS

1. Mount the receiver box in the desired location using supplied two-sided tape.
2. The receiver connector comes prewired with basic connections to the power supply and the sensor. Using an appropriate screwdriver, make any additional desired electrical connections for output contacts or additional sensors per Figure 1. (*Note: additional sensors can be connected to either 6 & 7 or 8 & 9, as wiring space allows.*) Then snap the terminal wiring block into the receiver housing at the mating slot provided.
3. Turn off the main power. Wire the appropriate inputs to the main power source. Wire the blue and yellow wires (24V AC output) to the plenum wire that is prewired to the power input of the contact plug. Turn on the main power. The green "Power" indicator light on the receiver will turn on.
4. Place the sensor(s) where leaking water is most likely to first accumulate (such as the base of a washing machine, hot water heater, under sink, etc.), or in an HVAC/AC condensate pan to monitor for potential overflow.

The sensor is magnetic and can be installed horizontally or vertically in conjunction with the metal plate – see Figure 2. Install the sensor flush to the floor for immediate alarm or at the desired overflow alarm level.

- Clean the desired location area to ensure the surface is clean for optimum plate adhesion.
- Peel the backing off the metal plate to reveal the adhesive and stick in place.
- Place the sensor on the plate at the desired height, allowing the magnets to secure it in place.

Note: The sensor features a through-hole that can be used to screw it onto a surface if a more permanent installation is desired or necessary.

5. Function Test the system as follows:

- Place the sensor on a wet paper towel. The audible alarm will sound.
- Remove the sensor from the paper towel, dry the contact points, and place it back in the desired location on the metal plate.
- If necessary, press and release the "Reset" button on the receiver to reset the system's NO/NC dry contact outputs.

TRANSFORMER WIRING INSTRUCTIONS

The supplied transformer has multiple input taps to accommodate different line voltages. If the existing line voltage you have at your facility is:

120V AC – The **WHITE** wire from the transformer should be connected to the hot leg of the input voltage and the black wire to the neutral leg.

208V AC – The **RED** wire from the transformer should be connected to the hot leg of the input voltage and the black wire to the neutral leg.

240V AC – The **ORG** wire from the transformer should be connected to the hot leg of the input voltage and the black wire to the neutral leg.

The **GREEN** wire in all cases must be connected to **EARTH GROUND**.

Each wiring combination as stated above yields the same 24V AC output across the **BLUE** and **YELLOW** wires of the secondary winding of the transformer.

See back cover for Transformer Mounting Instructions.

RS-096-MK6

WATER ALARM KIT

1. Receiver box
2. Power LED
3. Reset button
4. Wiring terminal block mating slot

5. Water sensor
6. Metal plate
7. Step-down transformer
8. Transformer mounting plate

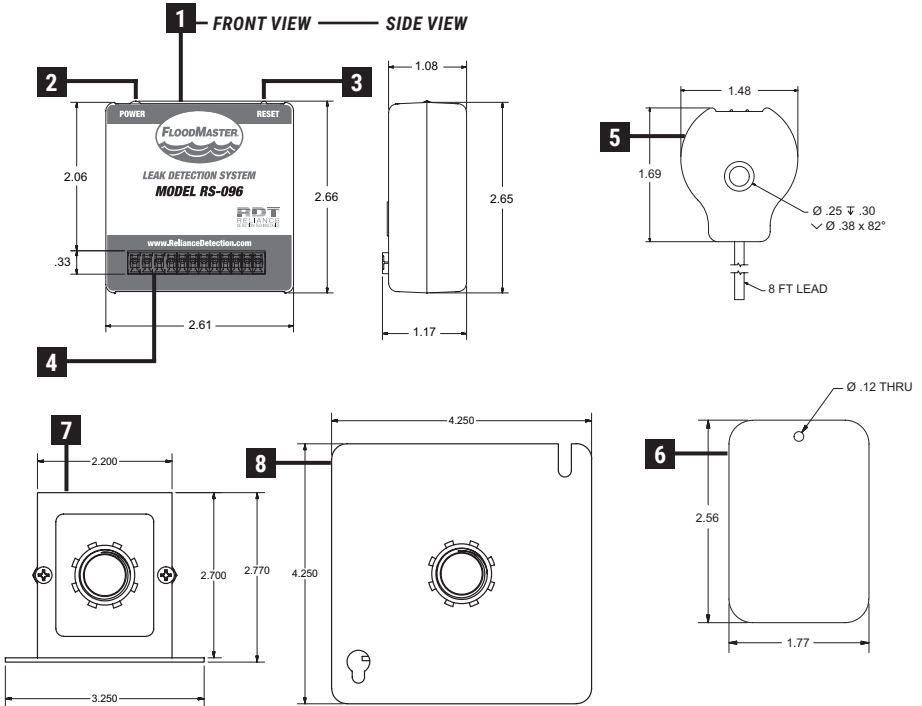


FIGURE 1 –
WIRING DIAGRAM

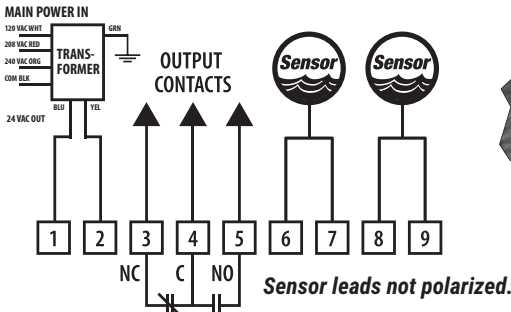
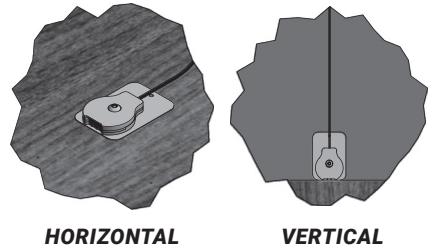


FIGURE 2 –
SENSOR INSTALLATION OPTIONS



TRANSFORMER MOUNTING INSTRUCTIONS

The kit contains a cover plate for a standard junction box. The cover has a hole or knock out in the center of it. The cover plate is designed such that the transformer can be mounted to it and then screwed into the junction box.

1. In order to mount the transformer to the cover, carefully route the primary wires of the transformer through the hole in the cover.
2. Tilt the cover so that the head of the retaining screw on the transformer is over the cover.
3. Back the screw out until the cover slips under the threaded end of the retaining screw.
4. Tighten the screw until the transformer is secured on the cover. The threaded end of the screw is designed to press against the cover to hold the transformer in place.

OPTIONAL FEATURES AND CONNECTIONS:

See Figure 1 for wiring diagram.

Additional Water Sensors – For applications where a wider area of leak detection coverage is desired, additional sensors can be added to the system. Wire additional sensors to terminal strip pins 6 & 7 or 8 & 9. Additional sensors are sold separately; custom wire lengths available.

Security Panel Connection – Use for applications where connection to a home security system or control panel is desired, or to turn off an HVAC unit to prevent further water accumulation in the pan. Control of such a device may require an appropriate relay (not included).

This dry contact relay signal can be wired per your application requirements as follows:

Normally Closed Circuit – Terminal Pins 3 & 4 Normally Open Circuit – Terminal Pins 4 & 5

Press and release the “Reset” button after alarm to reset the signal.

OPERATION & SYSTEM RESET

In the event the system activates, locate the source of the leak or near overflow, remove the sensor from the water and dry the metal contacts. Correct the problem and replace the sensor in the desired leak detection location. If necessary, press and release the “Reset” button on the receiver to reset the system’s NO/NC dry contact outputs.

MAINTENANCE

Exercise (press and release) the “Reset” button on the receiver box annually to ensure correct operation and to maintain product warranty status.

NEED INSTALLATION OR SETUP ASSISTANCE?

Call toll-free: 888-771-4929 or visit www.RelianceDetection.com/support/RS-096



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