RDT provides solutions for mitigating water damage from undetected indoor plumbing leaks.

It all starts with a SINGLE DROP of water...

Undetected leaks can quickly turn into a total catastrophe.

Product Catalog and Specification Guide

Frustrated When Looking for a Leak Detection Solution?


• Wireless, app-based systems for full-facility protection
• Solutions for plenum spaces
• Monitor individual appliances

Ask us about our new CEU credit course on plumbing leak detection!

Plumbing leak detection and water damage mitigation solutions for every space and budget.

Discuss your application with the experts at RDT!
Reliance Detection Technologies™ delivers the most innovative and extensive selection of indoor plumbing leak detection and water damage mitigation systems in the industry, with solutions for every type of commercial, industrial and residential building – and budget – including the popular FloodMaster® line of products.

### PLUMBING LEAK DETECTION & WATER DAMAGE MITIGATION SYSTEMS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>4</td>
<td>RSC-900</td>
<td>Water Mains – Full Facility Protection, App-Based Notifications</td>
<td>1/2&quot;, 3/4&quot;, 1&quot;, 1-1/4&quot; (Optional)</td>
<td>120V AC</td>
<td>Push notification to app</td>
<td>Yes</td>
<td>Yes</td>
<td>Wireless</td>
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<tr>
<td>8</td>
<td>MK6</td>
<td>Plenum-Rated Kits</td>
<td>1/2&quot;, 3/4&quot;, 1&quot;, 1-1/4&quot;</td>
<td></td>
<td>Step-down transformer</td>
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<td>10</td>
<td>RS-080</td>
<td>Water Mains – Localized Protection</td>
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<td>120V AC</td>
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<td>14</td>
<td>RS-090-E</td>
<td>Washing Machines</td>
<td>Dual-Port 1/2&quot;</td>
<td>120V AC</td>
<td></td>
<td>No</td>
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<tr>
<td>16</td>
<td>RS-092</td>
<td>Hose-Fed Appliances (Dishwashers, ice makers, RO systems, beverage machines, etc.)</td>
<td>1/2&quot; to 3/8&quot; fittings</td>
<td>120V AC or step-down transformer</td>
<td>Dry Contacts – NO/C/NC</td>
<td>Yes</td>
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<td>RS-094</td>
<td>Water Heaters, Water Tanks, etc.</td>
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<td>Sump Pumps, Clean Rooms, etc.</td>
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<td>9V Battery</td>
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<td>22</td>
<td>RS-096</td>
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<td>No Valve</td>
<td>120V AC</td>
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<td>Yes</td>
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<td>Wired</td>
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<td>24</td>
<td>RS-097</td>
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<td>Wired (elevated 1/2&quot;)</td>
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### ACCESSORIES & ADD-ONS

<table>
<thead>
<tr>
<th>Page</th>
<th>Model No.</th>
<th>Description</th>
<th>For Use With</th>
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<tbody>
<tr>
<td>6</td>
<td>RSC-900-W-001</td>
<td>Wireless Water Flood Sensors</td>
<td>RSC-900</td>
</tr>
<tr>
<td>6</td>
<td>RSC-RSC-900-W-175</td>
<td>Wireless Rope-Style Water Sensor Kit</td>
<td>RSC-900</td>
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<tr>
<td>6</td>
<td>RSC-900-X-200</td>
<td>Wireless Signal Repeater</td>
<td>RSC-900</td>
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<tr>
<td>6</td>
<td>RSC-900-W-310-X</td>
<td>Wireless Actuator &amp; Valve</td>
<td>RSC-900</td>
</tr>
<tr>
<td>7</td>
<td>RSC-900 CMS</td>
<td>Cloud-Based Central Monitoring Station</td>
<td>RSC-900</td>
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<tr>
<td>26</td>
<td>RSA-175-810</td>
<td>Wired Sensing Rope Kit</td>
<td>RS-080, RS-090-E, RS-094, RS-096, RS-097</td>
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</table>

For complete installation/operation documentation, plus answers to Frequently Asked Questions, please visit RelianceDetection.com/support/.
TECHNICAL SUBMITTAL DATA SHEET

Wireless, App-Based Plumbing Leak Detection & Optional Automatic Water Main Shut-Off System

| Job Name: _______________________________ | Job Location: _______________________________
| Engineer: _______________________________ | Engineer Approval: ___________________________
| Contractor: ______________________________ | Contractor Approval: _________________________
| Contractor P.O.: _________________________ | Representative: _____________________________

MODEL RSC-900

TYPICAL INSTALLATIONS INCLUDE:
- Common-risk housing – condos and apartments
- Commercial office suites
- New and retrofit construction
- Vacation homes and other unattended properties

HIGHLY RECOMMENDED FOR:
- Multi-unit residential complexes
- Commercial office buildings
- Medical and assisted living facilities
- Any facility with a history of insurance claims for water damage

FEATURES:
- Mobile app provides automatic notifications and remote user interface, including manual valve shut-off
- Addressable sensors with high/low temperature alerts
- Full port valve sizes 1/2” to 1-1/4” dia.
- Supports multiple actuators for both hot and cold water lines
- IP68-rated actuator for indoor/outdoor use
- Available without shut-off valve/actuator for applications where you do not wish to interrupt the water flow
- Operates via wireless system network; does not use local Wi-Fi
- Cloud-based Central Monitoring Station access is available for commercial multi-unit applications (see pg. 7)
- Hub supports up to 29 total wireless devices

APPLICATION CONSIDERATIONS:
The RSC-900 is a complete wireless, app-based system for managing indoor plumbing leaks, protecting properties and reducing financial losses. If the sensor detects a leak, it signals the valve to shut off and sends its location, alarm type and valve status back to the hub. The hub sends notifications to the user via the app. Fault notifications and status check-ins are communicated through the app from any Internet-enabled device. The system is also available without a shut-off valve and actuator for applications where interrupting the water flow is either not required or not desirable.

INSTALLATION OVERVIEW:
Hub: Install within 5’ of the Internet router and a 120V AC wall outlet.

Actuator(s): Install within 200’ of the hub*, on the main water feed line to the protected area. Multiple actuators can be installed where both hot and cold feed line control is required.

Water Flood Sensors: Install within 200’ of the hub*, in areas where water from a leak is most likely to first accumulate.

*Repeater(s) may be used to extend range between hub and accessory (+200’ max.).

APP: Free download available for iOS or Android smart phones at the App Store or Google Play. Required for initial system installation and set-up.

Central Monitoring: Optional cloud-based central monitoring allows multiple system viewing from one screen. See pg. 7 for details.

Hub and sensors are for interior use only. Actuator is IP68 rated for indoor or outdoor use. Do not install any components inside a metal cabinet.
RSC-900 TECHNICAL SUBMITTAL DATA SHEET

**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>P/N</th>
<th>UPC</th>
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<tr>
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<td>RSC-900-W</td>
<td>811475030177</td>
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</table>

**OPERATING SPECIFICATIONS:**

See charts at right for further detail.

**Valve**

Pressure Rating ............ 600 WOG - 150 WSP
Max. Temperature .......... 366°F

**Actuator**

Max. Pressure ............ 80 PSI

**Sensor**

Audible Alarm ............ 83 dB

**MATERIALS:**

- **Valve**
  - Body: Low-lead brass
  - End Connection: Low-lead brass
  - Stem: Low-lead brass
  - Ball: Low-lead brass (tea coated)

- **Ball Seats:** PTFE
- **O-Rings:** FKM (Viton®)

**CABLE LENGTHS:**

- Hub Power Cord: 5'
- Ethernet Cable: 4'

**APPROVALS:**

- **RSC-900 Wireless System FCC & Industry Canada Info**
  This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- **Certifications:**
  - FCC: 2AFOICLMFLD10 20798-CLMFLD10
  - Hub: 2AFOICLMCTRL10 20798-CLMCTRL10
  - Actuator: 2AFOICLMASOU20 20798-CLMASOU20

**AVAILABLE ACCESSORIES (see pg. 6):**

- **Wireless Actuator & Valve (RSC-900-W-310-X)**
- **Wireless Signal Repeater (RSC-900-X-200) – Max. 2 per system**

RDT recommends that RSC-900-AW installations be completed by a licensed plumber to ensure that all local code requirements are followed.
RSC-900 Wireless System Accessories

A maximum of 29 wireless devices can be added to each system/hub.

- Easy QR code scanning to add accessories to your existing system.
- Onboard LED indicators for low battery and lost communication, with push notifications to the RSC-900 app.
- Device name, location and photo can be stored in the app so there’s no guessing when an event occurs.

### Wireless Water Flood Sensors

Purchase as many wireless water flood sensors (RSC-900-W-001) as needed to accommodate your leak and low/high temperature detection requirements. Wireless signal range is 200’ between sensor and hub.

- Powered by (2) AAA batteries (included).
- Factory preset low/high temperature (36°F / 122°F) (2°C / 50°C), with push notification to the app.
- “Find Me” feature starts the sensor chiming so you can easily locate it.

**P/N UPC**

<table>
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</table>

### Wireless Rope-Style Water Sensor Kit

This rope-style wireless sensor is ideal for hard-to-reach locations; discreet sensing in areas where aesthetics are key; or applications where perimeter coverage is preferable to a single point of contact.

- Powered by (2) AAA batteries (included).
- Kit includes one 10’ rope; snap-fit additional lengths (RSA-175-010) for up to 100’ of coverage.

**P/N UPC**

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### Wireless Signal Repeater

Use the RSC-900-X-200 wireless signal repeater to increase range or improve the signal performance between RSC-900 wireless devices and the hub. Up to 2 repeaters can be added to each system/hub to triangulate a nearby device or to simply extend the signal range – up to an additional 200’ between any wireless device and the hub.

- Powered by a 120V AC wall wart with battery back-up (2 AAA batteries – included).

**P/N UPC**

<table>
<thead>
<tr>
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</thead>
<tbody>
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### Wireless Actuator & Valve

Purchase as many wireless actuator assemblies (RSC-900-W-310) as needed to accommodate your water supply shut-off requirements. This is a great option for installations requiring control of both hot and cold water feed lines. Wireless signal range is 200’ between the actuator and hub.

- Wireless actuator powered by (4) CR123A batteries (included).
- Full port, lead-free valves in 1/2", 3/4", 1", and 1-1/4" sizes.
- Easy pushbutton or key to manually open/close the valve.
- Suitable for exterior installations (IP68).

**Valve P/N UPC**

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<th>P/N</th>
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<tr>
<td>1&quot;</td>
<td>RSC-900-W-310-1</td>
<td>811475030115</td>
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<tr>
<td>1-1/4&quot;</td>
<td>RSC-900-W-310-1-1/4</td>
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TECHNICAL SUBMITTAL DATA SHEET
Cloud-Based Plumbing Leak Detection System
Central Monitoring & Management Platform

Job Name: _____________________________________________
Engineer: ______________________________________________
Contractor: _____________________________________________
Contractor P.O.: ________________________________________
Job Location: ___________________________________________
Engineer Approval: ______________________________________
Contractor Approval: ____________________________________
Representative: _________________________________________

RSC-900 CMS

TYPICAL INSTALLATIONS INCLUDE:
• Common-risk housing – condos and apartments
• Commercial properties and office suites
• Vacation homes and other unattended properties

HIGHLY RECOMMENDED FOR:
• Commercial property managers and building owners
• Remote service providers

FEATURES:
• Cloud-based system to monitor the status of multiple RSC-900 wireless, app-based leak detection (and optional water shut-off) systems from a single screen
• Monitor system status any time, anywhere, from any large-screen device*
• Capture historical status reporting and event handling data for potential “insurtech”-type discounts
• Flexible reporting tools – sort historical data by system, status, type, date range, etc.
• Allows for multiple users (“operators”) and permission levels

* Requires use of Chrome browser.

View current status and historical data for an unlimited number of RSC-900 systems at a glance.

Full history of events, user responses, and status reports – logged and stored in the cloud.

RSC-900 App vs. Central Monitoring Station

<table>
<thead>
<tr>
<th></th>
<th>Check System Status</th>
<th>Receive Alerts</th>
<th>Remote Manual Control</th>
<th>Set User Permissions</th>
<th>View Multiple Accounts on One Screen</th>
<th>Record Event Handling</th>
<th>Event Handling Logs</th>
<th>Generate Status Reports</th>
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<td>Yes</td>
<td>Yes</td>
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TECHNICAL SUBMITTAL DATA SHEET
Plenum-Rated Water Leak Detection Kits

MK6 SERIES

TYPICAL INSTALLATIONS INCLUDE:

• Plenum-mounted water heaters and water tanks (RS-094-MK6)
• Applications requiring valve installation up in the plenum, with power and leak detection sensing in the work space below (RS-080-MK6) – such as under break room sinks
• Simple water leak detection in a plenum space (RS-096-MK6)
• Plenum HVAC/water chiller condensate pans, for overflow detection (RS-097-MK6)

HIGHLY RECOMMENDED FOR:

• Commercial and municipal facilities
• Multi-residential complexes

KIT FEATURES:

• Plenum-rated wires for the water sensor, power supply and valve cable connections (as applicable)
• Step-down transformer (120, 208, 240 VAC to 24 VAC) with mounting plate in lieu of standard wall wart
• Pre-wired with basic connections to the power transformer and the sensor
• An audible alarm for quick identification of the problem
• All valves are suitable for potable water installations
• Dry contacts (NO/C/NC) to tie into existing building automation and security systems

APPLICATION CONSIDERATIONS:

In commercial buildings, water supply lines and water-fed appliances such as water tanks and chillers are often located in plenum spaces. Because they are hidden from view, these are especially susceptible to the damage caused by an undetected water leak.

Local fire, safety and electrical codes have strict guidelines for installation of electrical devices in plenum spaces, typically requiring that all devices be hard-wired directly to their power source and that special-grade “plenum-rated” wires be used. These special requirements typically require a field retrofit to code, resulting in added time and expense.

RDT makes it easy and convenient to work within these challenging spaces with its plenum-rated FloodMaster MK6 series kits. These kits are also ideal for any application which requires hardwiring to a power source, such as for leak detection under sinks in break rooms.
MK6 SERIES TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

<table>
<thead>
<tr>
<th>RS-094-MK6 Water Heater/Tank Kits</th>
<th>Valve Size</th>
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PLENUM-RATED COMPONENT DIMENSIONS & WEIGHTS:

**Step-Down Transformer**

Voltage...................... 120, 208 or 240V AC to 24V AC
Transformer Cable.............12’

RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.
TECHNICAL SUBMITTAL DATA SHEET
Leak Detection & Automatic Water Main Shut-Off System

Job Name: _____________________________________________
Engineer:   ______________________________________________
Contractor:  _____________________________________________
Contractor P.O.:  ________________________________________
Job Location:  ___________________________________________
Engineer Approval:  ______________________________________
Contractor Approval:  ____________________________________
Representative:  _________________________________________

MODEL RS-080 with 3/4” to 2” Ball Valve

TYPICAL INSTALLATIONS
INCLUDE:
• Common-risk housing – condos and apartments
• Commercial break rooms
• New and retrofit construction
• Mechanical rooms

HIGHLY RECOMMENDED FOR:
• Multi-residential complexes
• Commercial office buildings
• Any facility with a history of insurance claims for water damage

FEATURES:
• Full-port valves available from 3/4” to 2” dia.; systems with butterfly valves also available from 2-1/2” to 4” dia.
• Reusable and testable
• Easy reset button
• Plugs into a standard 120V AC outlet
• Audible alarm (83 dB)
• Supports multiple water sensors for a wider area of leak detection
• N/O and N/C dry contacts
• Factory pre-wired

APPLICATION CONSIDERATIONS:
The RS-080 is designed for localized leak detection (one room, one floor, etc.). When a leak is detected, the unit will sound an alarm and automatically shut off the main water supply line, preventing extensive water damage.

INSTALLATION OVERVIEW:
The full-port shut-off valve installs on the main water supply line. The receiver box plugs into a standard 120V AC wall outlet. A sensor is placed in an area where water from a leak is likely to accumulate. Up to 5 additional sensors can be added for a wider area of leak detection. Components come pre-wired.

Optional Cable Adder between the receiver and valve assembly allows the receiver to be located up to 100’ from the valve (available in standard 10’, 25’, 50’ and 100’ lengths). Ideal for situations where the valve is located in hard to reach locations such as in risers, ceilings, crawl spaces, etc.

The system can be performance tested anytime; it is resettable via reset button on the receiver box. Optional dry contact connections (NO/C/NC) are available for fault notification to existing security panel or BMS.

Emergency manual operation of the valve is accomplished by turning the knob on the top of the actuator. In the event of a power failure, the valve will remain in position (either open or closed).
RS-080 with 3/4” to 2” Ball Valve

TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

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<th>Valve Size</th>
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<td>2”</td>
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OPERATING SPECIFICATIONS:

Ball Valve
Pressure Rating .......... 600 WOG - 150 WSP
Max. Temperature....... 366°F

Electric Actuator
Voltage ...................... 24V AC
Absorbed Current ....... 1.0 A
Absorbed Power ......... 24V A
Frequency .................. 50/60 Hz
Working Temp. ........... -4° to 131°F

Receiver Box
Audible Alarm ............ 83 dB

MATERIALS:

Ball Valve
Body ................... Low-lead brass
End Connection ... Low-lead brass
Stem ................... Low-lead brass
Ball .................... Low-lead brass (tea coated)
Ball Seats ............ PTFE
O-Rings ............... FKM (Viton®)

CABLE LENGTHS:

Power Cord ............ 12’
Sensor Cable ......... 8’ (custom lengths avail.)
Valve Cable .......... 8’ (adder lengths avail.)

APPROVALS:

NSF/ANSI 61 and 372 approved valve.
MA Board of Registration of Plumbers Approval – Code # P3-0818-66.
UL classified actuator.

DIMENSIONS & WEIGHTS:

Shut-Off Ball Valve (3/4” to 2”)

OPERATING SPECIFICATIONS:

Ball Valve
Pressure Rating .......... 600 WOG - 150 WSP
Max. Temperature....... 366°F

Electric Actuator
Voltage ...................... 24V AC
Absorbed Current ....... 1.0 A
Absorbed Power ......... 24V A
Frequency .................. 50/60 Hz
Working Temp. ........... -4° to 131°F

Receiver Box
Audible Alarm ............ 83 dB

MATERIALS:

Ball Valve
Body ................... Low-lead brass
End Connection ... Low-lead brass
Stem ................... Low-lead brass
Ball .................... Low-lead brass (tea coated)
Ball Seats ............ PTFE
O-Rings ............... FKM (Viton®)

CABLE LENGTHS:

Power Cord ............ 12’
Sensor Cable ......... 8’ (custom lengths avail.)
Valve Cable .......... 8’ (adder lengths avail.)

APPROVALS:

NSF/ANSI 61 and 372 approved valve.
MA Board of Registration of Plumbers Approval – Code # P3-0818-66.
UL classified actuator.

AVAILABLE ACCESSORIES (see pg. 26):

• Wired Sensor Pucks – Up to 5 additional sensors can be wired to a single RS-080 receiver box for a wider area of leak detection.
• Sensing Rope Kit – Ideal for use with low tanks, or for room perimeter and sub-floor leak detection applications.
• Auto Dialer – Receive automatic alerts whenever the RS-080 identifies a fault condition.
• Cable Adder – Allows for positioning of the RS-080 receiver up to 100’ further away from the valve.

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

Reliance Detection Technologies, LLC
27 Business Park Drive
Branford, CT 06405

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**TECHNICAL SUBMITTAL DATA SHEET**

Leak Detection & Automatic Water Main Shut-Off System

---

**MODEL RS-080 with 2-1/2” to 4” Butterfly Valve**

**TYPICAL INSTALLATIONS INCLUDE:**
- Common-risk housing – condos and apartments
- Commercial break rooms
- New and retrofit construction
- Mechanical rooms

**HIGHLY RECOMMENDED FOR:**
- Multi-residential complexes
- Commercial office buildings
- Any facility with a history of insurance claims for water damage

**FEATURES:**
- Butterfly valves available from 2-1/2” to 4” dia.; systems with ball valves also available from 3/4” to 2” dia.
- Reusable and testable
- Easy reset button
- Plugs into a standard 120V AC outlet
- Audible alarm (83 dB)
- Supports multiple water sensors for a wider area of leak detection
- N/O and N/C dry contacts
- Factory pre-wired

**APPLICATION CONSIDERATIONS:**
The RS-080 is designed for localized leak detection (one room, one floor, etc.). When a leak is detected, the unit will sound an alarm and automatically shut off the main water supply line, preventing extensive water damage.

**INSTALLATION OVERVIEW:**
The full-port shut-off valve installs on the main water supply line. The receiver box plugs into a standard 120V AC wall outlet. A sensor is placed in an area where water from a leak is likely to accumulate. Up to 5 additional sensors can be added for a wider area of leak detection. Components come pre-wired.

Optional Cable Adder between the receiver and valve assembly allows the receiver to be located up to 100’ from the valve (available in standard 10’, 25’, 50’ and 100’ lengths). Ideal for situations where the valve is located in hard to reach locations such as in risers, ceilings, crawl spaces, etc.

The system can be performance tested anytime; it is resettable via reset button on the receiver box. Optional dry contact connections (NO/C/NC) are available for fault notification to existing security panel or BMS.

Emergency manual operation of the valve is accomplished by turning the knob on the top of the actuator. In the event of a power failure, the valve will remain in position (either open or closed).
RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.

**RS-080** with 2-1/2” to 4” Butterfly Valve  TECHNICAL SUBMITTAL DATA SHEET

**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>Valve Size</th>
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<tr>
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<td>857640005786</td>
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<td>3”</td>
<td>RS-080-3</td>
<td>857640005793</td>
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<tr>
<td>4”</td>
<td>RS-080-4</td>
<td>857640005809</td>
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</table>

**OPERATING SPECIFICATIONS:**

*Butterfly Valve*
- Pressure Rating: 250 PSI
- Max. Temperature: 250°F

*Electric Actuator*
- Voltage: 24V AC
- Absorbed Current: 1.0 A
- Absorbed Power: 24V A
- Frequency: 50/60 Hz
- Working Temp.: -4° to 131°F

*Receiver Box*
- Audible Alarm: 83 dB

**MATERIALS:**

*Butterfly Valve*
- Body: Ductile Iron
- Seat: EPDM (-30° to 250°F)
- Lug Style: Nylon-Coated Ductile Iron
- Shafts: 416 Stainless Steel
- Locating Pin: Carbon Steel
- Bushing: PTFE
- O-Ring: EPDM

*Mounting*
- Direct Mount* (see note under Dimensions)

**CABLE LENGTHS:**

- Power Cord: 12’
- Sensor Cable: 8’ (custom lengths avail.)
- Valve Cable: 8’ (adder lengths avail.)

**APPROVALS:**

- NSF/ANSI 61 and 372 approved valve.
- MA Board of Registration of Plumbers Approval – Code # P3-0818-66.

**AVAILABLE ACCESSORIES (see pg. 26):**

- **Wired Sensor Pucks** – Up to 5 additional sensors can be wired to a single RS-080 receiver box for a wider area of leak detection.
- **Sensing Rope Kit** – Ideal for use with low tanks, or for room perimeter and sub-floor leak detection applications.
- **Auto Dialer** – Receive automatic alerts whenever the RS-080 identifies a fault condition.
- **Cable Adder** – Allows for positioning of the RS-080 receiver up to 100’ further away from the valve.

---

*Note: Butterfly valves require appropriate mounting flange and hardware (not included). Please see install manual for details.

Recommended flange: 316/316L SS forged, threaded NPT-F, 150 lb. ANSI raised-face flange (raised surface on the back).*
TECHNICAL SUBMITTAL DATA SHEET
Washing Machine Leak Detection & Automatic Water Shut-Off Outlet Box System

TYPICAL INSTALLATIONS INCLUDE:
• Single-family homes
• Condos
• Commercial apartment buildings
• Assisted living facilities

HIGHLY RECOMMENDED FOR:
• Applications where washing machine is located above the ground floor, where water from a leak will easily spread to lower floors
• Any washer hook-up that lacks a manual shut-off valve
• Facilities with a history of insurance claims for water damage
• Structures with high-end amenities

FEATURES:
• Plugs into a standard 120V AC outlet
• Water sensor with 8’ lead wire
• Outlet box with (4) mounting straps and trim plate
• Integrated water hammer arrestors for hot and cold water lines
• Easy reset button; system is reusable
• Plugs into a standard 120V AC outlet
• Leak LED and audible alarm (86 dB)
• Factory pre-wired
• Insurance discount may be available upon installation

APPLICATION CONSIDERATIONS:
Did you know – Water from a burst washing machine hose can produce approx. 6 gallons of water a minute. That’s 650 gallons (2.5 tons!) of water in an hour.

The RS-090-E is suitable for installation on new construction, facility upgrades, tenant build-outs and retrofit projects. Care should be taken to ensure necessary rough opening space for outlet box (7.75” X 9” X 3.75”), along with hot and cold feed line positioning/spacing (2.52” on center). Also requires 120V AC power outlet within 6’ of the leak detection receiver.

INSTALLATION OVERVIEW:
The system features an outlet box with built-in leak detection receiver for simultaneous hot and cold water automatic shut-off when a leak is detected. The kit also includes pre-installed water hammer arrestors on both the hot and cold water lines. The leak detection receiver is powered by a standard 120V AC wall outlet. Outlet box is secured to studs using supplied mounting straps. Water supply lines and appliance hoses connect at the appropriate points to the leak detection receiver, and the mechanical water shut-off device resides in between. Place leak detection water sensor on the floor next to or under the washer and plug the unit into the wall outlet. Finish installation by mounting supplied trim plate and securing drain hose in the provided 2-3/8” ID opening.

Emergency manual operation of the water shut-off valves is accomplished by disconnecting power to the unit. In the event of a power failure, the valves will fail closed (water off).

RDT recommends that installations be completed by a licensed plumber to ensure that all local codes requirements are followed.
RS-090-E TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

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<tr>
<th>Valve Size</th>
<th>P/N</th>
<th>UPC</th>
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<tr>
<td>Dual-port 1/2&quot;</td>
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<td>811475030160</td>
</tr>
</tbody>
</table>

OPERATING SPECIFICATIONS:

Fittings
Supply Lines..............1/2" NPT brass
Feed Lines..................3/4" NPT brass
Max. Water Temp. ...........120°F
Max. Water Pressure.......Tested to 80 PSI

Receiver Box / Actuator
Transformer ...................120V AC
Voltage .......................30V AC
Working Temp. ..............0°F to 100°F
Audible Alarm ...............86 dB

Water Hammer Arrestors
Hot & Cold Lines..... To ASSE 1010

MATERIALS:

Fittings
Body .......................Brass
End Connection ......Brass

Leak Detection Receiver & Water Sensor
Body .....................High-performance engineered polymer

Outlet Box & Mounting Material
Body .....................Fire-rated PVC

CABLE LENGTHS:

Power Cord ..............7'
Sensor Cable .............8'

APPROVALS:

Meets UL94 Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances (materials only).

MA Board of Registration of Plumbers Approval – pending.

DIMENSIONS & WEIGHTS:

Outlet Box Dimensions: 7.75" x 9" x 3.75"; 6 lbs.
(4) 3-position U-straps 4" x 1.90" for mounting to the front of back face of the stud
(1) Trim plate with 1" of coverage all around for rough opening

Warning: For use with water only. Do not install on gas line. For indoor use only. This system requires a 120V AC wall outlet within 6 feet of the system.

RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.
TECHNICAL SUBMITTAL DATA SHEET
Hose-Fed Appliance Leak Detection & Automatic Shut-Off System

MODEL RS-092

TYPICAL INSTALLATIONS INCLUDE:
• Dishwashers, ice makers, and beverage dispensers
• Commercial break rooms
• Residential water treatment and reverse osmosis (RO) systems
• Restaurants and food courts
• Common-risk housing – condos and apartments
• New and retrofit construction

HIGHLY RECOMMENDED FOR:
• Commercial office buildings
• Multi-residential complexes
• Academic, institutional and industrial facilities
• Any facility with a history of insurance claims for water damage

FEATURES:
• 1/2” full port valve
• Fittings: (1) 3/8” x 1/2” male compression and (1) 3/8” x 1/2” female compression
• Choice of standard wall wart or step-down transformer to power the unit
• Reusable and testable
• Easy reset button
• Snap-fit actuator allows for manual operation of the valve
• Audible alarm (83 dB)
• N/O and N/C dry contacts
• Factory pre-wired

APPLICATION CONSIDERATIONS:
Hose-fed appliance failures can happen at any time, often without warning and hidden from view. These leaks can cause substantial flooding and property damage if allowed to run for more than even just a few minutes’ time. The RS-092 system is designed to minimize water damage when these leaks occur.

INSTALLATION OVERVIEW:
The RS-092 full port valve installs on the hard pipe feed water line between the manual shut-off and the hose line, using the provided 1/2” NPT x 3/8” fittings. Lay the wire rope sensor under the appliance or around the area where water from a leak is most likely to accumulate. When the sensor detects leaking water, an alarm will sound and the valve will automatically shut off the feed water intake to prevent catastrophic water damage.

The RS-092 is available in two electrical supply configurations: standard 120V AC wall wart (MK1) or 120, 208 or 240V AC to 24V AC step-down transformer (MK2). Components come pre-wired. The system can be performance tested anytime; it is resettable via reset button on actuator. Optional dry contact connections (NO/C/NC) are available for fault notification to existing security panel or BMS.

Emergency manual operation of the valve is accomplished by removing the snap-fit actuator and manually changing the valve to open or closed. In the event of a power failure, the valve will remain in position (either open or closed).
RS-092 TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

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<tr>
<th>Valve Size</th>
<th>P/N</th>
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<tbody>
<tr>
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<td>RS-092-1-2-MK1</td>
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<tr>
<td>1/2”</td>
<td>RS-092-1-2-MK2</td>
<td>857640005854</td>
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POWER SUPPLY:
MK1...... 120V AC Wall Wart
MK2...... 120, 208 or 240V AC to 24V AC
Step-Down Transformer

OPERATING SPECIFICATIONS:
Valve
Pressure Rating...........600 WOG - 150 WSP
Max. Temperature...........366°F
Max. Pressure.............Tested to 80 PSI

Receiver Box / Actuator
Transformer ...............120V AC
Voltage ..................24V AC
Absorbed Current .......0.6 A
Absorbed Power ..........15V A
Frequency ...............50/60 Hz
Working Temp. ...........0° to 100°F
Square Drive .............0.43
Audible Alarm ...........83 dB

MATERIALS:
Valve
Body ...................Low-lead brass
End Connection ...Low-lead brass
Stem ...................Low-lead brass
Ball ...................Low-lead brass (tea coated)
Ball Seats ..........PTFE
O-Rings ..........FKM (Viton®)

CABLE LENGTHS:
Power Cord ..............12’
Sensor Cable ..........6’ lead wire with 10’ of sensing cable (extension lengths are available)

APPROVALS:
NSF/ANSI 61 and 372 approved valve.
MA Board of Registration of Plumbers Approval – Code # P1-0617-575.

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

RDT Submittal Sheet RS-092 102018 RevA
TECHNICAL SUBMITTAL DATA SHEET
Water Tank Leak Detection & Automatic Shut-Off System

Job Name: _____________________________________________  Job Location: _____________________________________________
Engineer:   ______________________________________________  Engineer Approval: ______________________________________
Contractor:  _____________________________________________  Contractor Approval: ____________________________________
Contractor P.O.: _________________________________________  Representative: _________________________________________

MODEL RS-094

TYPICAL INSTALLATIONS INCLUDE:
• Common-risk housing – condos and apartments
• Commercial break rooms
• New and retrofit construction
• Vacation homes and other unattended properties

HIGHLY RECOMMENDED FOR:
• Multi-residential complexes
• Commercial office buildings
• Any facility with a history of insurance claims for water damage

FEATURES:
• Full port valve sizes 1/2” to 1-1/4” dia.
• Reusable and testable
• Easy reset button
• Snap-fit actuator allows for manual operation of the valve
• Plugs into a standard 120V AC outlet
• Audible alarm (83 dB)
• N/O and N/C dry contacts
• Factory pre-wired

MODIFIED KIT CONFIGURATIONS:
• RS-094-MK6 for Plenum Spaces (see pg. 8)
• RS-094-MK1 with Rope Sensor for Low-Profile Tanks
• RS-094-MK4 with Electrical Plug Interrupter
• RS-094-MK5 Kit with Gas Flow Interrupter
• RS-094-MK7 Kit with Gas Interface Cable

APPLICATION CONSIDERATIONS:
The RS-094 system is designed to prevent damage caused by undetected plumbing leak from a water tank. The full port valve installs on the cold water inlet line to the water heater, and the snap-fit actuator attaches directly to the valve mounting pad. A leak detection sensor is placed in the pan or on the floor under the tank, typically under the pressure relief valve or in a similar area where water from a leak is likely to accumulate.

INSTALLATION OVERVIEW:
The RS-094 plugs into a standard 120V AC wall outlet. Components come pre-wired. The system can be performance tested anytime; it is resettable via reset button on actuator. Suitable for new construction or retrofit, gas-powered or electric tanks, conventional or tankless systems. Optional dry contact connections (NO/C/NC) are available for fault notification to existing security panel or BMS.

Emergency manual operation of the valve is accomplished by removing the snap-fit actuator and manually changing the valve to open or closed. In the event of a power failure, the valve will remain in position (either open or closed).
RS-094 TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

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<td>1-1/4&quot;</td>
<td>RS-094-1-1/4</td>
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OPERATING SPECIFICATIONS:

Valve
Pressure Rating ..........600 WOG - 150 WSP
Max. Temperature.......366°F
Max. Pressure ..........Tested to 80 PSI

Receiver Box / Actuator
Transformer ...............120V AC
Voltage ..................24V AC
Absorbed Current ......0.6 A
Absorbed Power .........15V A
Frequency ............50/60 Hz
Working Temp ..........0° to 100°F
Square Drive ..........0.43
Audible Alarm ..........83 dB

MATERIALS:

Valve
Body ..................Low-lead brass
End Connection ...Low-lead brass
Stem ..................Low-lead brass
Ball ..................Low-lead brass (tea coated)
Ball Seats ..........PTFE
O-Rings ..............FKM (Viton®)

Receiver Box / Actuator & Sensor
Body ..........High-performance engineered polymer

CABLE LENGTHS:

Power Cord ..........12’
Sensor Cable ......8’ (custom lengths avail.)

APPROVALS:

NSF/ANSI 61 and 372 approved valve.
MA Board of Registration of Plumbers Approval – Code # P1-0515-489.

AVAILABLE ACCESSORIES (see pg. 26):

• Wired Sensor Pucks – Up to 5 additional sensors can be wired to a single RS-094 receiver box for a wider area of leak detection.

• Sensing Rope Kit – Ideal for use with low tanks, or for room perimeter and sub-floor leak detection applications.

• Auto Dialer – A convenient, low-cost add-on to send and receive automatic alerts whenever your FloodMaster system identifies a fault condition.

DIMENSIONS & WEIGHTS:

Shut-Off Valve

| Size      | Square A | B | C | D | E | F | G | H | I | L | CH | M | P | CV | PSI | LBS | IN-LBS |
|-----------|----------|---|---|---|---|---|---|---|---|---|----|----|---|---|----|-----|-----|-------|
| 1/2"      | 1.50     | 1.28 | 0.35 | 1.42 | (ISO F03) | 0.24 | 0.35 | 0.08 | 0.98 | 1.32 | 1.06 | 0.22 | 0.56 | 18.84 | 580 | 0.21 | 53.10 |
| 3/4"      | 1.50     | 1.36 | 0.35 | 1.42 | (ISO F03) | 0.24 | 0.35 | 0.08 | 0.98 | 1.57 | 1.26 | 0.22 | 0.75 | 34.10 | 580 | 0.40 | 53.10 |
| 1"        | 1.50     | 1.79 | 0.35 | 1.42 | (ISO F03) | 0.24 | 0.35 | 0.12 | 0.98 | 1.93 | 1.61 | 0.24 | 1.18 | 49.71 | 580 | 0.75 | 53.10 |
| 1-1/4"    | 1.50     | 1.93 | 0.35 | 1.42 | (ISO F03) | 0.24 | 0.35 | 0.12 | 0.98 | 2.30 | 2.02 | 0.24 | 1.18 | 102.88 | 580 | 1.05 | 53.10 |

(IN-LBS) TORQUE VALVES ARE MEASURED IN LABORATORY TESTS UNDER THE FOLLOWING CONDITIONS: TEMPERATURE: 68°F; PRESSURE: O PSI; FLUID: PURIFIED WATER.

Water Sensor

Receiver Box / Actuator

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MODEL RS-095

TYPICAL INSTALLATIONS INCLUDE:
- Drains and pipes that are prone to leaking or freezing
- Water-fed appliances such as dishwashers, washing machines and water heaters
- Sump pumps
- Tubs
- Table-top containers and beakers
- Sinks

HIGHLY RECOMMENDED FOR:
- Commercial buildings
- Basements
- Above/near data processing rooms
- Medical facilities and labs
- Any facility with a history of insurance claims for water damage

FEATURES:
- Completely self-contained and portable
- Powered by a single 9-volt battery
- Reusable and testable
- Easy reset button
- Loud audible alarm (110 dB)
- A plug-in leak alarm that can accommodate multiple sensors and interface with a security system is also available (model RS-096)

APPLICATION CONSIDERATIONS:
The RS-095 self-contained, battery-powered alarm system is designed to detect and notify you of leaks and overflows from water-fed appliances, plumbing fixtures and tanks/containers. When the integrated water sensor comes in contact with just 1/32” of any non-flammable conductive liquid (such as water), an alarm sounds.

This fully transportable sensor can be repositioned as your need for an early leak detection alarm changes. The integrated sensor has a 6’ wire so it can be extended into a sump pit or mounted on a wall and stretched to another location. Splice up to 100’ of speaker wire into the line to extend the sensor’s reach even further.

INSTALLATION OVERVIEW:
The receiver box is powered by a single 9V battery (not included). The sensor is located on the bottom of the alarm box. The alarm can be placed directly on the floor with the sensor compartment closed, or the sensor compartment can be opened and the sensor wires extended to reach a sump pit or another remote location where water is likely to accumulate. The system can be performance tested anytime.
Wiring Schematic for RS-080, RS-090, RS-094 RS-096, and RS-097 Dry Signal Contact Wiring to a Plug-In Relay

Wiring Schematic for RS-080, RS-090, RS-094 RS-096, and RS-097 Dry Signal Contact Wiring to a Relay
TECHNICAL SUBMITTAL DATA SHEET
Water Leak Detection & Alarm System

Job Name: _______________________________  Job Location: _______________________________
Engineer: _______________________________  Engineer Approval: ___________________________
Contractor: ______________________________
Contractor Approval: _______________________
Contractor P.O.: __________________________
Representative: __________________________

MODEL RS-096

TYPICAL INSTALLATIONS INCLUDE:
- Drains and pipes that are prone to leaking or freezing
- Water-fed appliances such as dishwashers, washing machines and water heaters
- Sump pumps
- Tubs
- Table-top containers and beakers
- Sinks

HIGHLY RECOMMENDED FOR:
- Commercial buildings
- Basements
- Above/near data processing rooms
- Medical facilities and labs
- Any facility with a history of insurance claims for water damage

FEATURES:
- Reusable and testable
- Easy reset button
- Plugs into a standard 120V AC outlet
- Audible alarm (83 dB)
- N/O and N/C dry contacts
- Factory pre-wired

MODIFIED KIT CONFIGURATIONS:
RS-096-MK6 Plenum-Rated Kit (see pg. 8) – Features plenum-rated wires and step-down transformer (120, 208, 240V AC to 24V AC) with mounting plate in lieu of standard wall wart. Please see the RS-096-MK6 installation manual for detailed installation instructions.

APPLICATION CONSIDERATIONS:
The RS-096 alarm system is designed to detect and notify you of leaks from water-fed appliances, plumbing fixtures and tanks/containers. When the water sensor comes in contact with just 1/16” of any non-flammable conductive liquid (such as water), an alarm sounds. Optional dry contact connections (NO/C/NC) can also be used for fault notification to existing security panel or BMS.

INSTALLATION OVERVIEW:
The receiver box plugs into a standard 120V AC wall outlet. A sensor is placed in an area where water is likely to accumulate. Up to 5 additional sensors can be added for a wider area of leak detection. Components come pre-wired.

The system can be performance tested anytime; it is resettable via reset button on the receiver box.

203-488-2684 or 888-771-4929
info@RelianceDetection.com
www.RelianceDetection.com
RS-096 TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

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<thead>
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<th>Valve Size</th>
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OPERATING SPECIFICATIONS:

Receiver Box
Transformer ..................120V AC
Voltage ......................24V AC
Absorbed Current .........0.6 A
Absorbed Power ...........15V A
Frequency ................50/60 Hz
Working Temp. ..........0° to 100°F
Square Drive ............0.43
Audible Alarm ..........83 dB

MATERIALS:

Receiver Box & Sensor
Body ..................High-performance engineered polymer

CABLE LENGTHS:

Power Cord ........12’
Sensor Cable ......8’ (custom lengths avail.)

AVAILABLE ACCESSORIES (see pg. 26):

• Wired Sensor Pucks – Up to 5 additional sensors can be wired to a single receiver box for multi-unit monitoring, with 8’, 25’, 50’ and 100’ cable lengths available.
  P/N RSA-100-008; -025; -050; -100

• Sensing Rope Kit – Ideal for use with low tanks, or for room perimeter and sub-floor leak detection applications. P/N RSA-175-810

• Auto Dialer – Receive automatic phone alerts whenever the system identifies a fault condition. P/N RSA-600-003

RS-096-MK6 MODIFIED KIT:

Modified kit RS-096-MK6 includes plenum-rated wires and a step-down transformer (120, 208, 240V AC to 24V AC) with mounting plate in lieu of the standard plug-in wall wart.

RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.
TECHNICAL SUBMITTAL DATA SHEET
HVAC/Air Conditioner Condensate Pan Overflow Alarm

MODEL RS-097

TYPICAL INSTALLATIONS INCLUDE:
• Air conditioners and HVAC systems
• Water chillers (roof-top or inside the structure)

HIGHLY RECOMMENDED FOR:
• Multi-residential complexes
• Commercial office buildings
• Any facility with a history of insurance claims for water damage

FEATURES:
• Reusable and testable
• Easy reset button
• Plugs into a standard 120V AC outlet
• Audible alarm (83 dB)
• N/O and N/C dry contacts
• Factory pre-wired

MODIFIED KIT CONFIGURATIONS:
RS-097-MK6 Plenum-Rated Kit (see pg. 8) — Features plenum-rated wires and step-down transformer (120, 208, 240V AC to 24V AC) with mounting plate in lieu of standard wall wart. Ideal for monitoring HVAC equipment and chillers installed in hidden plenum spaces. Please see the RS-097-MK6 installation manual for detailed installation instructions.

APPLICATION CONSIDERATIONS:
The RS-097 system is designed to prevent water damage caused by overflowing air conditioning, HVAC, HVACR and water chiller condensate pans. This unit features an elevated (1/2”) water sensor which will allow for a normal amount of water in the pan and only activate in a near-overflow situation. When too much water accumulates in the pan, an alarm sounds. An optional signal wire can be wired through an appropriate relay (not included) to turn off the HVAC unit when the alarm is activated to prevent further accumulation.

INSTALLATION OVERVIEW:
The receiver box plugs into a standard 120V AC wall outlet. A sensor is placed in the condensate pan or another area where water is likely to accumulate. Up to 5 additional sensors can be added for a wider area of leak detection. Components come pre-wired.

The system can be performance tested anytime; it is resettable via reset button on the receiver box. Optional dry contact connections (N/O/C/NC) can also be used for fault notification to existing security panel or BMS.
RS-097 TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

<table>
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<tr>
<th>Valve Size</th>
<th>P/N</th>
<th>UPC</th>
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<tbody>
<tr>
<td>N/A</td>
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</tr>
</tbody>
</table>

OPERATING SPECIFICATIONS:

Receiver Box
- Transformer: 120V AC
- Voltage: 24V AC
- Absorbed Current: 0.6 A
- Absorbed Power: 15V A
- Frequency: 50/60 Hz
- Working Temp: 0° to 100°F
- Square Drive: 0.43
- Audible Alarm: 83 dB

MATERIALS:
- Receiver Box & Sensor: High-performance engineered polymer

CABLE LENGTHS:
- Power Cord: 12'
- Sensor Cable: 8' (custom lengths available)

AVAILABE ACCESSORIES (see pg. 26):
- Wired Sensor Pucks: Up to 5 additional elevated sensors can be wired to a single RS-097 receiver box for multi-unit monitoring, with 8', 25', 50' and 100' cable lengths available. P/N RSA-150-008; -025; -050; -100.
- Auto Dialer: Receive automatic phone alerts whenever the RS-097 system identifies a fault condition. P/N RSA-600-003

RS-097-MK6 MODIFIED KIT:
Modified kit RS-097-MK6 includes plenum-rated wires and a step-down transformer (120, 208, 240V AC to 24V AC) with mounting plate in lieu of the standard plug-in wall wart.

RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.
**SENSING ROPE ACCESSORY KIT**

For use with models RS-080, RS-094, RS-096 and RS-097

Certain applications or leak detection requirements may necessitate the use of this Sensing Rope in place of traditional FloodMaster sensor “pucks” – most notably when a wider area of leak detection is desired.

This highly absorbent water sensing rope is constructed from two twisted metal conductor wires that are insulated from one another and surrounded by a polyethylene mesh braid jacket. The ends are male/female quick-disconnect snap connectors for easy installation and removal. Up to 100 feet of sensor rope (10 lengths) may be connected to a single FloodMaster receiver box.

**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>Description</th>
<th>P/N</th>
<th>UPC</th>
</tr>
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<tbody>
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<td>10’ Sensing Rope Kit</td>
<td>RSA-175-810</td>
<td>857640005557</td>
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<tr>
<td>Add-On 10’ Rope Length</td>
<td>RSA-175-010</td>
<td>857640005540</td>
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</tbody>
</table>

The Sensor Kit (RSA-175-810) includes:

(1) Lead Wire (6’)
(1) Sensing Rope (10’)
(2) Hold Down Accessories

Additional 10-foot Sensing Rope lengths are sold separately (p/n RSA-175-010).
At Madison Company, we support our customers’ efforts by employing our capabilities, experience, and application know-how to provide the best solutions. We strive to be a preferred global source for sensors and control technology. We follow through with fast time to market, reliable quality and delivery, and outstanding service.

Our success in providing value to our customers builds a company that benefits customers, employees, suppliers, and our community. Ultimately, our mission is to benefit people's lives now and in the future.

Madison Company was founded in 1959 in Madison, CT, starting out as a job shop with many products. Over time, Madison's focus changed to the manufacture of liquid level switches and sensors, expanding its product and technology portfolio to meet the needs of the marketplace. In 1985, the company moved to Branford, CT, as it developed its North American and international presence. Madison Company has been on a steady growth pattern, doubling sales every 5 years since 1976.

"We have always tried to develop relationships of trust and cooperation with our customers. Many of them look upon us as a long-term partner and an extension of their product development teams."

— Steve Schickler, President & Owner, Madison Company/RDT

In 2009, Madison introduced the FloodMaster® line of products, which provide dependable flood control systems for water heaters, washing machines, HVAC condensate systems and water tanks.

In an effort to address the ever-increasing demand for technologically advanced monitoring and detection capabilities, in 2015 Madison founded Reliance Detection Technologies, LLC (RDT). RDT's mission is to meet those increasing market demands by drawing on the depth and breadth of Madison's 55+ years of engineered sensor design and application experience. RDT’s latest success is the state-of-the-art RSC-900 wireless, app-based leak detection and optional automatic water shut-off system.

The traditional FloodMaster leak detection products – combined with the feature-rich, multipurpose wireless technology offered by RDT – uniquely position the organization to offer sole sourcing to meet the detection application needs of every space and budget.

RDT’s products are proudly made in the USA and ship directly from our Branford, Connecticut location.