**RSC-900-AW**

**Quick Start Guide**

NEED INSTALLATION OR SETUP ASSISTANCE?
Call toll-free: 888-771-4929
Or visit www.RelianceDetection.com/support/RSC-900

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**RSC-900 Wireless System FCC & Industry Canada Information**

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.

<table>
<thead>
<tr>
<th>Certifications:</th>
<th>FCC</th>
<th>IC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Sensor RSC-900-W-001</td>
<td>2AF0ICLMFLD10</td>
<td>20798-CLMFLD10</td>
</tr>
<tr>
<td>Hub RSC-900-X-650</td>
<td>2AF0ICLMCTRL10</td>
<td>20798-CLMCTRL10</td>
</tr>
<tr>
<td>Actuator RSC-900-W-310</td>
<td>2AF0ICLMASOU20</td>
<td>20798-CLMASOU20</td>
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Communication hub: IP Rating IEC60529
Valve/actuator: IP Rating IEC60529; IP68, ANSI61, Annex G (valve)

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The RSC-900-AW Leak Detection System should be installed by an authorized plumber. Hub and sensors are for interior use only. The valve/actuator may be installed on the exterior of the building, if necessary and as the local climate allows.

When considering exterior installation, be sure the actuator would not be immersed in water for more than 30 minutes and immersed in water deeper than 3’. Do not install any components inside a metal cabinet.

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**RSC-900-AW System Components (included in kit):**

1 – Communication hub
2 – AA batteries (hub)
1 – Ethernet cable
1 – 110V plug (hub)
2 – Water flood sensors
4 – AAA batteries (sensors)
1 – Valve
1 – Actuator
4 – CR123A (3V) batteries (actuator)
1 – Long parallel mounting adaptor (valve/actuator)
1 – Short perpendicular mounting adaptor (valve/actuator)
1 – Emergency key (valve/actuator)
1. Set Up the Communication Hub

1 - Connect Ethernet cable to 2.4 GHz band Internet router

2 - Install batteries

3 - Plug into wall outlet

A. LED status light
B. Upper cover
C. Lower cover
D. Power / Ethernet inputs (bottom of lower cover)
E. Table stand (detachable)

2. Download the RSC-900 System Management App

Download the “RSC-900 by RDT” app onto the designated smartphone from the Apple App Store or Google Play.

3. Set Up Account & System

1 - Once Internet communication has been established with the hub (as indicated by flashing green LED status light) create a New Account and System in the app.

2 - Scan the Kit Master QR Code found on the outside of the master kit box (see above) to add the basic kit components to your system. Wait until “Installation Successful” appears on the app and then tap “OK.”

Please visit our website for detailed video instructions for account and system set up:

www.RelianceDetection.com/support/RSC-900

Component Indicator Light Guide

- Green .................... OK
- Blue Flash ............... Communication problem
- Slow Red Flash .......... Low battery
- Quick Red Flash .......... Water leak detected (sensor only)
**Set Up the Valve and Actuator (for systems requiring water shut-off)**

1 - Install the CR123A (3V) batteries with positive side “in” and negative side “out,” facing you.
2 - Install the stem and adaptor as shown, using the provided screws.
3 - Install the valve into the water line after the manual shut-off; after any fire suppression systems; and according to all local plumbing codes.
4 - Record the actuator name, location and photo in the app.
5 - Turn on the water supply. Check for leaks.
6 - Hang the emergency key and tag on the actuator lock (G).

**NOTE:** Be sure to turn off the water supply before installation.

**NOTE:** Valves can be installed in any direction or orientation.*

A. Shut-off valve motor  
B. Motor stem position indicator  
C. LED status light  
D. Multipurpose button  
E. Battery housing cover  
F. Mounting adapter  
G. Lock  
H. Short mounting adaptor and stem (for actuator install perpendicular to pipe)  
I. Long mounting adaptor and stem (for actuator install parallel to pipe)  
J. Emergency turn key  
K. Valve

**Manual/Emergency Operation**

For information on how to manually open and close the valve, please refer to the included tag.

**Adding Accessory Sensors & Actuators**

1 - Complete initial kit installation, per steps 1-5 of this Quick Start Guide.
2 - Install the new device in its permanent location.
3 - From the App, tap on Menu – Settings – Add/Remove Devices – Configure – Add Devices. Scan the device QR code (see right).
4 - Tap the new device on the app screen
5 - Scroll down and tap “Edit.”
6 - Add name, location, and photo of installation location (optional).

* Please visit our website for detailed video instructions for hardware component set up:  
www.RelianceDetection.com/support/RSC-900
Set Up the Flood Sensors

1 - Install AAA batteries.
2 - Place the sensor in the desired location.
3 - Record the sensor name, location and photo in the app (confirm the correct device via the unique serial number on the app and sensor QR code).
4 - Repeat for each sensor.

A. LED status light
B. Water detection electrodes
C. Battery housing cover
D. Double-sided tape

Test the System

1 - Apply a wet paper towel to a sensor’s electrodes until its LED flashes red and its alarm/beep sounds.
2 - The actuator will shut the valve and a “Leak!” indication message will appear on the home screen of the app. Open a faucet and confirm that there is no water flow.
3 - In the app, tap the water shut-off icon, and then tap “Open” on the screen to open the valve. Verify that water is flowing at the faucet.
4 - Repeat for each sensor in the system.

Confirm Set-Up

Once all devices have been deployed, confirm that your system is properly set-up and devices are within wireless signal range of the hub.

1 - From the RSC-900 app menu in the upper-left corner of the screen (see icon at right), click on “Settings.”
2 - Tap “Add/Remove Devices.”
3 - Tap “Configure” next to the appropriate system (if you have multiple systems).
4 - Tap “Accept” at the bottom of the screen. The system will now confirm wireless signal strength of all devices. Devices will be momentarily greyed out on the screen while this occurs.
5 - Observe the devices come back on-line (borders around all device icons), along with their “Wireless Signal” strength indication.
6 - Look for any warning symbols along the right-hand side of the screen. ▲ indicates that the use of a repeater is needed for indicated device(s). Follow installation instructions for RSC-900-X-200 Wireless Signal Repeater to overcome wireless signal issues.