

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
- Hub supports up to 29 total wireless devices



Communications Hub

RSC-900 Mobile App

Wireless Actuator (RSC-900-AW)

Shut-Off Valve (RSC-900-AW)

Wireless Water Sensors

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. Contact RDT for additional information – 888-771-4929 or info@reliancedetection.com.



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:

Valve Size	P/N	UPC
1/2"	RSC-900-AW-1/2	811475030078
3/4"	RSC-900-AW-3/4	811475030085
1"	RSC-900-AW-1	811475030092
1-1/4"	RSC-900-AW-1-1/4	811475030108
None	RSC-900-W	811475030177

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	IC
Flood Sensor	2AFOICLMFLD10	20798-CLMFLD10
Hub	2AFOICLMCTRL10	20798-CLMCTRL10
Actuator	2AFOICLMASOU20	20798-CLMASOU20

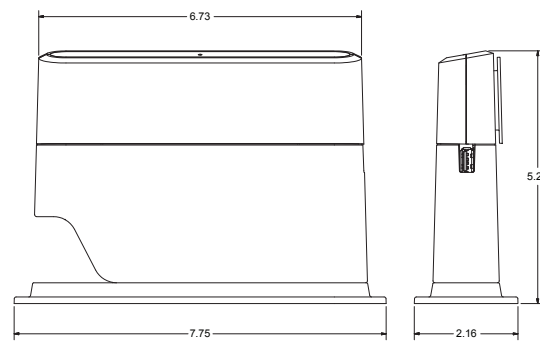
Communication Hub: IP Rating IEC60529

Valve/Actuator: IP Rating IEC60529; IP68; ANSI 61/372 (Valve)

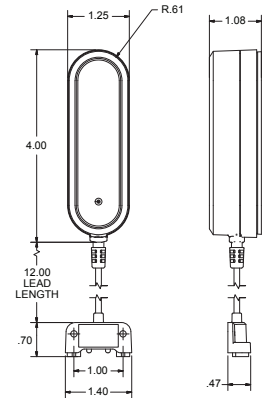
MA Board of Registration of Plumbers Approval – Code # P1-1018-40 (System)

DIMENSIONS & WEIGHTS:

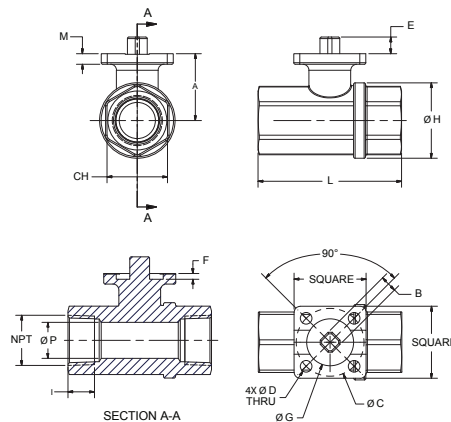
Communications Hub



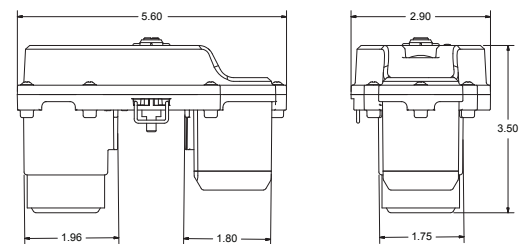
Wireless Sensor



Shut-Off Valve



Wireless Actuator



RSC-900 Shut-Off Valve Specifications

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	0.59	2.64	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	0.64	2.99	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	0.75	3.54	1.61	0.24	0.95	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	0.84	4.02	1.97	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: 0 PSI; FLUID: PURIFIED WATER.

RSC-900 Wireless Component Specifications

Component	Weight*	Power Supply	Backup Battery	Primary Radio Frequency	Operating Temperature	Communication	Signal Range	Addressable?
Communication Hub	6 oz (170 gm)	External Adaptor Input 110-240V AC	(2) AA batteries	915 MHz	-4°F to 122°F (-20°C to 50°C)	Wi-Fi, Ethernet	200'	Yes
Wireless Actuator (IP68)	13 oz (369 gm)	(4) CR123A batteries 2-year life	N/A	915 MHz	-4°F to 122°F (-20°C to 50°C)	Wireless RF	200'	Yes
Wireless Sensor	2 oz (57 gm)	(2) AAA batteries 2-year life	N/A	915 MHz	-4°F to 122°F (-20°C to 50°C)	Wireless RF	200'	Yes

* Weight without accessories attached.

AVAILABLE ACCESSORIES:

- Extra Wireless Water Flood Sensors (RSC-900-W-001)
- Wireless Rope-Style Water Sensor Kit (RSC-900-W-175)
- Wireless Signal Repeater (RSC-900-X-200) – Max. 2 per system
- Extra Wireless Actuator & Valve (RSC-900-W-310-X)

RDT recommends that RSC-900-AW 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

203-488-2684 or 888-771-4929
info@RelianceDetection.com
www.RelianceDetection.com