

WR2 Series Wireless Rain/Freeze Sensors

Superior Signal Reliability and Ease of Use

The **Rain Bird Wireless Rain Sensor** is designed for 24 VAC residential and commercial irrigation systems. This high-quality product saves water and extends irrigation system life by automatically sensing precipitation and interrupting irrigation during rain and low temperature events.

Programming logic can suspend irrigation using the "Quick Shut Off" feature or when the amount of rainfall exceeds the rainfall set point. Likewise, the **Wireless Rain / Freeze Sensor** will suspend irrigation when the system reaches a programmed low temperature set point.

Features & Benefits

- Enhanced antenna array provides superior signal reliability that overcomes most line-of-sight obstructions
- Sensor signal strength indicator enables one person set up, reducing installation time
- Convenient adjustment and monitoring of rain or freeze settings at the controller interface
- Simple battery replacement requiring no tools or need to disassemble sensor
- Highly intuitive icon-driven controller interface simplifies programming
- Easy to install, self-leveling sensor bracket mounts to flat surfaces or rain gutters
- Antennas concealed within the units for greater visual appeal and product robustness
- "Quick Shut Off" interrupts active irrigation cycle during a rain event

Models

Product Models	Description
WR2-RC	Rain Combo
WR2-RFC	Rain/Freeze Combo
WR2-RS	Rain Sensor Only
WR2-RFS	Rain/Freeze Sensor Only
WR2-RFI	Rain/Freeze Controller Interface Only

Electrical Specifications

- Application: suitable for use with 24 VAC controllers (with or without pump start / master valve)
- Electrical rating suitable for use with up to six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA
- Controller Interface Wire: 30" (76 cm) length of #22 gauge (0.64 mm) UV resistant extension wire
- UL, cUL, CE, C-Tick, and WEEE certifications
- FCC approved spread spectrum 2 way radio transceivers with FCC Class B approvals
- Signal transmission distance of 700' Line of Sight
- Battery life: four or more years under normal operating conditions
- 6 KV surge / lightning protection

Mechanical Properties

- Adjustable rainfall settings from 1/8" – 1/2" (3 – 13 mm)
- Adjustable low temperature settings from 33°F – 41°F (0.5° – 5°C)
- Three irrigation modes to select: Programmed, Suspend Irrigation for 72 hours, Override sensor for 72 hours
- "Quick Shut Off" suspends active irrigation cycle within approximately two minutes
- High-grade, UV resistant polymer units resist harmful environmental affects

Dimensions

WR2 Controller Interface

- Width: 3.1" (7.9 cm)
- Length: 6.8" (17.2 cm)
- Depth: 1.7" (4.3 cm)
- Distance between Mounting Holes: 6.25" (15.9 cm)



WR2 Sensor Assembly

- Sensor Length: 5.8" (14.7 cm)
- Attachment Bracket Length: 4.6" (11.7 cm)
- Distance between Mounting Holes: 4.25" (10.8 cm)
- Horizontal displacement (bracket + fixed ball arm): 5.5" (14.0 cm)

Replacement or Spare Parts

- WR2 Battery - #651009S
- WR2 Disk Assembly - #637810S

How to Specify/Order



Specifications

The wireless rain or rain / freeze sensor shall employ an electro-mechanical actuating mechanism designed to cause a circuit interrupt if programmable low temperature or rainfall set points are satisfied. Satisfied set points cause the device to temporarily suspend the irrigation controller schedule. As environmental conditions return to a state that no longer satisfy the low temperature or rainfall set points, the controllers normal irrigation schedule is resumed. The sensor shall be wired to normally closed (N.C.) controllers – in series with the valve common, or alternately, wires shall be inserted into the appropriate controller sensor terminal ports.

The device shall be of rugged construction to withstand the elements, including exposure to sunlight and precipitation. Antennas shall be concealed within the sensor and controller interface to improve aesthetics and product robustness.

The device shall be used with 24VAC controllers and shall be of sufficient capacity to be used with a maximum of six 24VAC 7VA solenoids plus an additional master valve or pump start that does not exceed 53VA.

The wireless rain sensor shall incorporate a provision that allows the installer to select from several rainfall or low temperature settings that can be programmed through the use of icons on a controller interface. A sensor LED shall communicate signal strength during the installation process.

The Rain Bird Rain or Rain / Freeze Sensor shall be manufactured by Rain Bird Corporation, Glendora, California.



Versatile Mounting Bracket



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