

Weather-based irrigation control

The WR-7RKD Weather Reach Receiver[™] provides Evapotranspiration (ET) and rain data to the Tucor RKD controller using data from highly accurate, local weather stations. Weather Reach helps maintain a healthier landscape while conserving water and saving money.

ET-Based Control of Irrigation Systems

Wind, temperature, humidity and solar energy affect how quickly your landscape will dry out. The WR-7RKD uses hourly data broadcasts from local weather stations to provide ET and rainfall data to the RKD controller. ET is calculated using the ASCE “Standardized Reference Evapotranspiration Equation” endorsed by the Irrigation Association.

Maintain healthier landscapes

- Plants receive the correct amount of water.
- ET-based control is proven technology.

Conserve water

- Use hourly real-time weather conditions to automate irrigation.
- Rain is measured to provide accurate adjustments to the irrigation schedule.

Save time and money

- Pay only for water your landscape actually needs.
- Reduce labor costs - scheduling changes are made automatically based on current weather conditions.
- Eliminate sensor maintenance.
- Wireless communication allows you to install it anywhere.
- Installation is quick and easy.



Weather-based control module for Tucor RKD controller.

Weather Reach Control Method

The WR-7RKD integrates ET with the Tucor RKD controller using an ET-Pulse. The WR-7RKD sends a pulse for every 0.01" of ET to the RKD controller.

Rainfall

Rain-Pulse - The WR-7RKD sends a pulse to the RKD controller for every 0.01" of rain measured at the weather station or with an on site tipping bucket rain gauge.

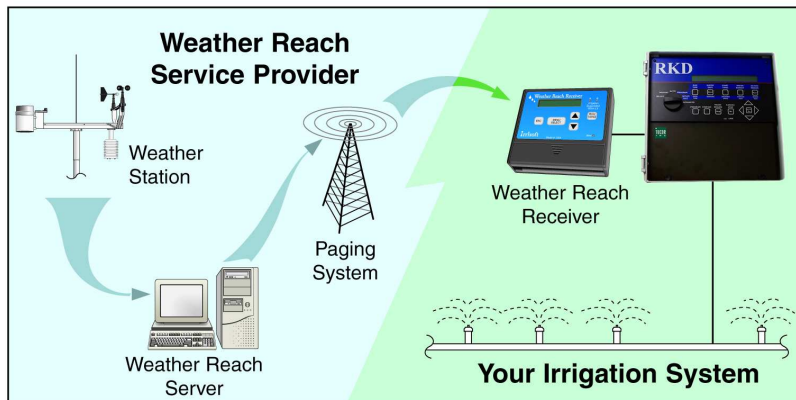
Weather Display

View the most recent weather information:

- **Rain** — Last 24-hour and 7-day accumulations
- **Air Temperature** — Current, daily high and low
- **Wind Speed** — Current, daily high and low
- **Relative Humidity** — Current, daily high and low
- **ETc** — Last 24-hour and 7-day accumulations

The Weather Reach Water Management System™

The Weather Reach Water Management System is comprised of two parts. The Weather Reach Receiver provides ET-based control for the Tucor RKD Controller. Local Weather Reach Signal Providers manage a network of weather stations and broadcast the latest weather data to the receivers using a Motorola Flex paging system. Contact your local Weather Reach Distributor or Irrisoft Inc. for a list of Weather Reach Signal Providers™.



The Weather Reach Water Management System

Specifications:

Power Supply*:	12 to 42 VAC or 12 to 60 VDC @ 0.1 A max.
Maximum Contact Load:	5 A @ 50 VAC
Pulse Frequency:	1 or 10 pulses per minute
Pulse Duration:	0.1 to 4.8 seconds
Operating Temp. Range:	-15° to 70°C (5° to 160°F)
Terminal Wire Gauge:	14 to 22 awg
Ground Lug Wire Gauge:	14 to 18 awg
Serial Communications:	RS-232 (RJ45 connector)
Antenna Connection:	BNC Female, 930 MHz
Rain Gauge Sensor Voltage:	3 VDC
Indoor Wall Mount Cabinet:	4.8"H x 5.25"W x 1.5"D

*A power cable (included) connects to the Tucor RKD Controller 16 VAC power supply. If needed, a separate power supply is available.

Note: The WR-7RKD is intended to be installed inside the RKD controller cabinet behind the controller panel however it may be installed outside the RKD controller cabinet.

Optional Accessories

<u>Model #</u>	<u>Description</u>
WR-PRG	Pronamic® Tipping Bucket Rain Gauge (1 mm per tip) w/ 30' Cable
WR-TE525-L30	Texas Electronics® 6" Tipping Bucket Rain Gauge (0.01" tip) w/ 30' Cable
WR-ANT-P	External Antenna with a 3dB gain
WR-ANT-B**	External Antenna
WR-OE	Outdoor Enclosure — Industrial lockable fiberglass NEMA 4X cabinet with 110 VAC outlet. Dimensions: 11-5/8" H x 9-1/2" W x 4-1/4" D
WR-PS	110 VAC Plug-in Power Supply Transformer

**The Weather Reach Receiver has a built-in antenna. Locations with a weak paging signal may require an external antenna and a 50 Ohm antenna cable with a BNC Male connector (not included).