

Nexus Wireless Valve Control



SPECIFICATION

BUSINESS FIELD

- LANDSCAPE & TURF
- GREENHOUSE, NURSERY & INDUSTRIAL
- AGRICULTURE
- GOLF



The Tucor Nexus Wireless Valve Control System belongs to the Tucor Nexus family of products. Tucor's Nexus Wireless Valve Control is a complete wireless system for powering and operating your new or existing DC latching valves. Wireless networks are formed around a gateway embedded in any irrigation controller, which acts as the wireless network master device with one or more WVR (Battery Powered DC Latching Receiver).

The Wireless Valve Control System is built around an industrial grade 900 Mhz 1 watt spread spectrum, license free radio system capable of penetrating dense landscape environments over long distances.

There are two platforms: the Nexus Base and the Nexus Link. The Base System is capable of remotely connecting from 1 to 6 valves from a local gateway attached to any manufacturers' control system. The Link System is a more advanced system that can remotely connect 8 to 50 valves and is typically built around the Tucor RKW wireless controller.

Typical applications are:



- Streetscapes that have damaged wires.
- Hydraulic systems without conventional wiring.
- Areas of hydrozoning where additional wires are not available.
- Green roofs and walls where conduit for wire is impractical.
- Existing landscapes where trenching and boring is not a practical alternative.
- Applications where there is a need to return the control of valves to a central location through the replacement of battery powered valve timers.
- New installations such as phased projects, cemeteries, highways, patio gardens where wiring is not practical or damage is anticipated.
- Control of valves at distances greater than what conventional controllers can manage.

Features:

- The remote radio provides the appropriate electric signal to either open or close a standard latching solenoid
- Nexus Base available in 6 valve capacities in Point to Point or Star Configurations
- Nexus Link available in 8 valve increments up to 50 total with repeater and multi-hop configurations
- WVR housing is rated for Dust and Water Spray Environments (IP65) The WVR comes mounted in a 12" water resistant ground level box with external antenna
- Nexus Base can be used with all manufacturers' controllers, both decoder* and standard terminal output. *Requires additional relay
- Because the radio only momentarily energizes its output per request, the lithium-ion battery can operate for several years depending on scheduling frequency
- Built in RSSI (Radio Signal Strength Indication)



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**Nexus Base can be used with any controller.
Nexus Link can accommodate up to 50 valves.**

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How to Order:

Nexus Wireless	
Part Number	Product Description
Base Gateway	
BW-400-G1i	Interior Mount Base Wireless Radio Gateway Assembly for up to 1 BW-400-WVR DC latching output radio
BW-400-G4i	Interior Mount Base Wireless Radio Gateway Assembly for up to 4 BW-400-WVR DC latching output radio
BW-400-G6i	Interior Mount Base Wireless Radio Gateway Assembly for up to 6 BW-400-WVR DC latching output radio
***BW-400-G6	Base Wireless Radio Gateway Assembly for up to 6 BW-400-WVR DC latching output radios. Includes 900 MHz enclosure, surface mount 3" Omni antenna for distances to 1000'
***	BW-400-G6 has alternate antenna options based on your site survey results
Note: Call for additional information	
Base Receiver	
BW-400-WVR-VB12	Base Wireless Radio 900 MHz radio with single battery powered DC latching output. IP67 outdoor rated. Includes water resistant 12" round ground level enclosure and interior antenna for distances up to 800' from Gateway
BW-400-WVR-VB12C	Base Wireless Radio 900 MHz radio with single battery powered DC latching output. IP67 outdoor rated. Includes water resistant 12" round ground level enclosure and Ceramic Antenna for distances up to 2500' from Gateway
BW-400-WVR-ENC	Base Wireless 900 MHz radio with single battery powered DC latching output. IP67 outdoor rated. Includes 3" Omni Antenna and NEMA enclosure opaque cover for above ground mount.
Controller Options	
RKW+P	RKW+ 25 Zone Wireless Controller panel only
RKW-CON25	25 Zone Internal Expansion Board (26-50)
RKW-EXTP	25 Zone Extension Panel for Zone count 26-50, 51-75, 76-100 panel only
RK-Z	License Key for one zone
Note: Call for cabinet options	
Link System	
Call for custom quote for your project on the Link System	



Base Wireless Receiver
(cutaway)
BW-400-WVR-VB12C



RKW+ in 20" Stainless Steel with
Base Gateway
BW-400-G6

Contact Tucor:
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More information:
www.tucor.com

