



Series: WRCS900-XL

Wireless Switch / Relay Remote Control System

FEATURES & BENEFITS



- Wireless Bridge Between Switch & Control Relay
- System Works With Any Dry-contact Switch
- Up To 6 Miles (LOS) Transmit/Receive Distance
- Weatherproof NEMA 4X Rated Enclosures
- Use To Control Pump, Valve, Motor or Lighting
- Optional Solar Power Kit for Transmitter
- Receiver Unit Features DPDT Control Relays
- License Free Point-to-point Radio Operation

APPLACATIONS

- Tank Monitoring or Water Level Alarm
- Level & Flow Control or Irrigation Systems
- Pump, Valve or Motor Control

DESCRIPTION

Series WRCS900-XL Wireless Switch/Control System provides a wireless bridge between any type dry-contact switch and a control relay. When a switch connected to the transmitting unit opens or closes signals are sent via a license free radio signal to a receiver unit up to 6 miles (Line-of-site) away. When the control box receives the proper wireless signal from the transmitter a control relay inside the panel is energized to operate a pump, valve or motor.

Application Example: Controlling 2 Motorized Valves with a Programmable Logic Controller (PLC)



General Specifications

Series: **WRCS900-XL**

Radio Frequency: 900 MHz
Immunity: Frequency Hopping Spread Spectrum
RF Power Output: 100mW
RF Impedance: 50 Ohm nominal
Transmitter/Receiver Code Matching: Factory set
Antennas: 5dBi Antenna (2 Included)
Antenna Extension Cables: 9ft (2 Included)
Transmit/Receive Distance (with Included antennas)
 Indoor/Urban 1000ft, 3 Miles Outdoor Line-of-site
Transmit/Receive Distance (with optional antennas)
 Indoor/Urban 1600ft, 6 Miles Outdoor Line-of-site
Enclosures: NEMA 4X, Polycarbonate
Cables Entry: PG11 Cable Glands

Transmitter Specifications

Control Input: Dry-contact Switch
RF Power Output: 100 mW
Power: Can be Hardwired, Battery or Solar
Hardwired – 12-24V DC or 120V AC 50/60 Hz @ 2W
Optional Solar – Includes Panel, Battery, Charger

Receiver/Controller Specifications

Power: 12V DC or 120V AC 50/60 Hz @ 4W
RF Input Impedance: 50 Ohm nominal
Control Relays: DPDT, 10A 120/240VAC

Available Options

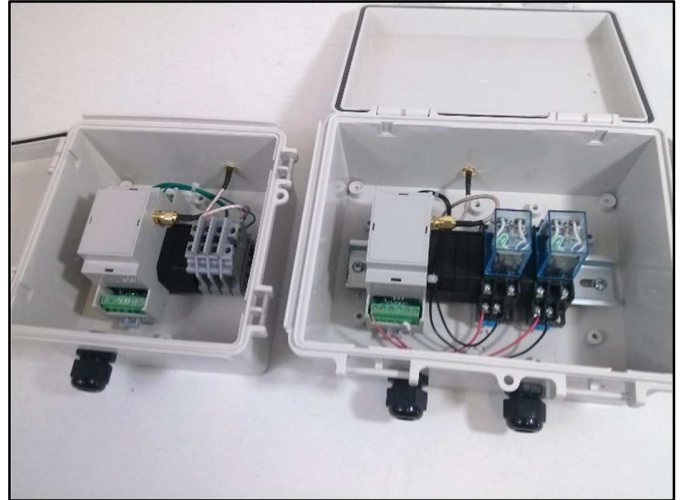
Model Number	Description
WRCS-900-SPK	Solar Power Kit
WRCS-900-LD-ANT	Long Distance Antenna Set

Solar Power Kit Includes Solar Panel, Charge Controller, Deep-cycle Battery, System Enclosure

Regulatory Approvals & Location Use

Approved for Use in USA, Canada only
 FCC Part 15 (No license required)
 FCC(USA) MCQ-XBEEEXSC
 IC (Canada) 1846A-XBEEEXSC

Note: WPC900-XL Systems are sold as "Matched Set" Products. You will receive one transmitter unit and one control receiver unit. They are factory programmed to only talk to each other. You can use multiple units in the field within the same area without them effecting each other's operation.



Model WRCS900-XL-2-TRAN / WRCS900-XL-2-REC



System Features NEMA 4X Rated Enclosures



Standard Antenna/Cable Set Included with System

Series: **WRCS900-XL**



Optional Long Distance Antenna Set



Optional Solar Power System for Switch Transmitter

Switch Transmitter Models Available

Model Number	Description	Switch Inputs
WCRS900-XL-SW1	Wireless Dry-contact Switch Transmitter	1
WCRS900-XL-SW2	Wireless Dry-contact Switch Transmitter	2
WCRS900-XL-SW4	Wireless Dry-contact Switch Transmitter	4

Control Receiver Models Available

Model Number	Description	Control Relays
WCRS900-XL-RC1	Wireless Relay Control Receiver	1
WCRS900-XL-RC2	Wireless Relay Control Receiver	2
WCRS900-XL-RC4	Wireless Relay Control Receiver	4

Models with higher capacity relays and contactors are available. Models with 2-way switching and control also available. Contact us for more information.

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Note: Continued product improvements make specifications subject to change without notice.
 Check www.imagineinstruments.com for the latest product information and updates

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