



Series: WCS-27A

Long Distance Wireless Control System with Up To 16 Independent Control Lines



FEATURES & BENEFITS

- Wireless Bridge Between Transmitter & Control Panel
- Activates With Dry-contact Switch, Controller or PLC
- Up To 10 Mile (LOS) Transmit/Receive Distance
- Use To Control Pumps, Valves, Motors or Lighting
- Available with 1, 2, 4, 8, 12 or 16 control lines
- Transmitter Can Be Hardwired, Battery or Solar Powered
- Pre-wired, Ready To Install and Operate
- License Free Point-to-point Radio Operation

APPLACATIONS

- Pump, Valve or Motor Control
- Lighting System Remote Control
- Irrigation Valve Control System

DESCRIPTION

Series WCS-27A Long Distance Wireless Transmitter/Control Panel System provides a wireless bridge between any type dry-contact switch, PLC or Controller and an electro-mechanical 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 10 mile (Line-of-site) away. When the relay control panel receives the proper wireless signal from the transmitter a power contactor inside the panel is energized to operate a pump, valve or motor. The Pump Control Panel features power and contactor fusing, latching or non-latching control. Models are available with 1, 2, 4, 8, 12 or 16 control lines.



PLC controlling two different irrigation valves up to 10 miles away.

General Specifications

Series: **WCS-27A**

Radio Frequency: 27.255 MHz
RF Output Impedance: 50 Ohm nominal
Transmitter/Receiver Code Matching: Factory set
Wire Connections: Terminal Blocks (14 – 24 AWG)
Transmitter/Receiver Enclosure: Fiberglass/Plastic Blend
Antennas: 36" Antennas (Included with system)
Operating Temperature: -10 to 130 °F (-23 to 54 °C)
Transmit/Receive RF Distance:
 Up to 6 Miles Line-of-sight (With Included 36" Antennas)
 Up to 10 Mile Line-of-sight (With 48" Optional Antennas)
Enclosure: Fiberglass/plastic blend NEMA 4X

Transmitter Specifications

Input: Dry-contact
RF Power Output: 10 Watts
Operating Power: Can be Hardwired, Battery or Solar
Hardwired - 12 to 24Vdc @ 350mA or 120VAC 50/60 Hz
Battery – 12V Battery (See Manual For Battery Life Estimates)
Optional Solar – Includes Panel, Battery, Charge Controller

Receiver/Contactor Panel Specifications

Operating Power: 120/240 VAC 50/60Hz
RF Input Impedance: 50 Ohm nominal
Control Relay: Electro-mechanical, See model chart
Fusing: System power main fuse
Control Action: Non-latching or Latching

Transmitter Models

Model Number	Description
WCS-27A-TRAN-1	Wireless Transmitter – 1 Control Line
WCS-27A-TRAN-2	Wireless Transmitter – 2 Control Lines
WCS-27A-TRAN-4	Wireless Transmitter – 4 Control Lines

Receiver Relay Control Panel Models

Model Number	Relay Capacity	Control Relays
WCS-27A-REC-10A-1	120/240VAC, 10A	1
WCS-27A-REC-10A-2	120/240VAC, 10A	2
WCS-27A-REC-10A-4	120/240VAC, 10A	4
WCS-27A-REC-10A-8	120/240VAC, 10A	8
WCS-27A-REC-10A-12	120/240VAC, 10A	12
WCS-27A-REC-10A-16	120/240VAC, 10A	16

Wireless Regulatory Approvals

Regulatory: FCC Part 95 (No license required)



System Includes 36" Antennas, 9' Cables & Mounts



Optional Solar Power Kit for Transmitter Unit

Available Options

Model Number	Description
AT27-48-Kit	48" 10 Mile Distance Antenna Kit
WPC27-SPK	Solar Power Kit

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