



Series: WCS24-OC

# Wireless Remote Control System



## FEATURES & BENEFITS

- Provides Wireless Bridge Between Switch & Relay
- Activate Transmitter with Any Dry-contact Switch
- Models Available With 1, 2 or 4 Control Lines
- Up To 1 Mile Line-of-site Transmit/Receive Distance
- Receiver Provides Open-collector Control Output
- Transmitter Powered By AC or DC Supply
- Easy To Install NEMA 4X Enclosures
- Pre-configured, Ready-To-Operate
- Sold As Transmitter/Receiver Matched Set
- License Free Radio Operation

## APPLACATIONS

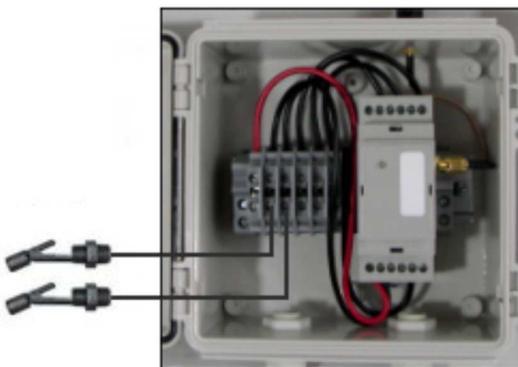
- Pump, Valve or Motor Control
- Gate or Lighting Control

## DESCRIPTION

The WCS24-OC Series Wireless Remote Control System allows for remotely activating equipment from a distance of up to 1 mile away using license free wireless 802.15.4 communication. The transmitter is equipped with up to four contact closure inputs that are used to control open-collector outputs on the receiver unit. Models are available with 1, 2 or 4 control lines. Transmitter can be activated with dry-contact switches or connected to a PLC for automated control.

### Example Application: Water Level Switches Activating Remote Water Pump & Alarm

Switch Transmitter



Control Receiver



## General Specifications

**Radio Frequency:** ISM 2.4Ghz  
**Regulatory:** FCC Part 95 (No license required)  
**Control Lines:** 1, 2 or 4  
**Antenna Connection:** RP-SMA  
**Antennas:** 7dbi, Omni-directional (Included)  
**Transmit/Receive Distance**  
**US/CA Model:** Indoor/Urban 300ft, Line-of-site 1 Mile  
**EU Model:** Indoor/Urban 100ft, Line-of-site 300ft  
**Transmitter/Receiver Code Matching:** Factory set  
**Wire Connection:** Din-rail Terminal Blocks  
**Operating Temperature:** -22 to 113 °F (-30 to 45 °C)  
**Enclosures:** NEMA 4X. ABS/PC Blend Plastic

## Transmitter Specifications

**RF Power Output:** 63mW (10mW EU Models)  
**RF Output Impedance:** 50 Ohm nominal  
**Transmit Time:** 250 ms  
**Operating Power:** 5-12V DC or 120V AC  
**Input Type:** Dry-contact

## Control Receiver Specifications

**Receive Sensitivity:** -100 dBm  
**Operating Power:** 5-12V DC or 120V AC  
**Control Output:** Open-collector, 12V DC, 100mA Max

## Regulatory Approvals

**FCC(USA):** OUR-XBEEPRO  
**IC (Canada):** 4214A-XBEEPRO

Series: **WCS24-OC**



Includes NEMA 4X Weatherproof Enclosures



Includes 9' Antenna Extension Cables

## Available Models

Model Number	Description	Control Lines
WCS24-OC-1	Wireless Remote Control Transmitter/Receiver Set (USA/CANADA)	1
WCS24-OC-1-EU	Wireless Remote Control Transmitter/Receiver Set (EU)	1
WCS24-OC-2	Wireless Remote Control Transmitter/Receiver Set (USA/CANADA)	2
WCS24-OC-2-EU	Wireless Remote Control Transmitter/Receiver Set (EU)	2
WCS24-OC-4	Wireless Remote Control Transmitter/Receiver Set (USA/CANADA)	4
WCS24-OC-4-EU	Wireless Remote Control Transmitter/Receiver Set (EU)	4

Note: Continued product improvements make specifications subject to change without notice.  
Check [www.imagineinstruments.com](http://www.imagineinstruments.com) for the latest product information and updates

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