

# Remote-Control Switch Transmitter/Relay Receiver



## FEATURES

- Wireless Bridge Between Switches & Relays
- Supervisory “Low Power” & “RF Loss” Alarms
- Activate Transmitter with Any Dry-contact Switch
- Models Available With 1, 2 or 4 Control Lines
- Up To 6 Miles Line-of-site Operating Distance
- Receiver Provides SPDT Mechanical Relays
- Transmitter Powered by Battery or DC Supply
- NEMA 4, 4X Anodized Aluminum Enclosures
- Pre-configured, Ready-To-Operate
- Sold As Transmitter/Receiver Matched Set
- License Free Radio Operation

## APPLACATIONS

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

## DESCRIPTION

The WXL-ME Series Wireless Industrial Remote-Control System for remotely activating equipment from a distance up to 6 miles away using license free wireless communication. Units are activated with dry-contact switches or connected to a PLC for automated control.

### SWITCH TRANSMITTER



The WXL-ME Series Switch Transmitter features up to 4 dry-contact inputs that activate relays of the receiver unit. The unit also sends supervisory system data to the receiver

### RELAY RECEIVER



The WXL-ME Series Receiver features up to 4 control relays. The unit also provides an Alarm output for Transmitter low power or RF signal loss.

## WXL-ME-24 General Specifications

**Radio Frequency:** 2.4Ghz  
**Regulatory:** FCC Part 95 (No license required)  
**Control Lines:** 1, 2 or 4  
**Antenna Connection:** RP-SMA  
**Antennas:** 5dbi, Omni-directional (Included)  
**Transmit/Receive Distance:**  
with included antennas: Indoor/Urban 100', Line-of-site 600'.  
with optional antennas: Indoor/Urban 300', Line-of-site 1 Mile.  
**Transmitter/Receiver Code Matching:** Factory set  
**Wire Connection:** Terminal Blocks  
**Operating Temperature:** -22 to 130 °F (-30 to 54 °C)  
**Enclosures:** NEMA 4, 4X, Anodized Aluminum

## WXL-ME-24 Transmitter Specifications

**RF Power Output:** 63mW  
**RF Output Impedance:** 50 Ohm nominal  
**RF Data Rate:** 250 kbps  
**Operating Power:** 11 - 14V DC @ 2W max  
**Control Input Type:** Dry-contact Switch

## Receiver/Control Specifications

**Receive Sensitivity:** -100 dBm  
**Operating Power:** 11 - 14V DC @ 3W max  
**Control Output:** Relay, SPDT, 250V, 3 Amp Max

## WXL-ME-900 General Specifications

**Radio Frequency:** 900 MHz  
**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:**  
with included antennas: Indoor/Urban 1000', Line-of-site 3 Miles.  
with optional antennas: Indoor/Urban 1600', Line-of-site 6 Miles.  
**Transmitter/Receiver Code Matching:** Factory set  
**Wire Connection:** Terminal Blocks  
**Operating Temperature:** -22 to 130 °F (-30 to 54 °C)  
**Enclosures:** NEMA 4, 4X, Anodized Aluminum

## WXL-ME-900 Transmitter Specifications

**RF Power Output:** 100mW  
**RF Output Impedance:** 50 Ohm nominal  
**RF Data Rate:** 10 kbps  
**Operating Power:** 11 - 14V DC @ 2W max  
**Control Input Type:** Dry-contact Switch

## Receiver/Control Specifications

**Receive Sensitivity:** -106 dBm  
**Operating Power:** 11 - 14V DC @ 3W max  
**Control Output:** Relay, SPDT, 250V, 3 Amp Max

Series: **WXL-ME**



Includes Antennas & Antenna Extension Cables



Optional Long-Distance Antenna Set



Enclosures Include Mounting Feet

## Regulatory Approvals

WXL-ME-24  
FCC(USA) - OUR-XBEEPRO  
IC (Canada) - 4214A-XBEEPRO

WXL-ME-900  
FCC(USA) - OUR-XBEEPRO  
IC (Canada) - 4214A-XBEEPRO

## Available 2.4 GHz Models (Up to 1 Mile Operation)

Model Number	Description	Control Lines
WXL-ME-24-1	1-Line Remote-Control Transmitter/Receiver Set	1
WXL-ME-24-2	2-Line Remote-Control Transmitter/Receiver Set	2
WXL-ME-24-4	4-Line Remote-Control Transmitter/Receiver Set	4

## Available 900 MHz Models (Up to 6 Mile Operation)

Model Number	Description	Control Lines
WXL-ME-900-1	1-Line Industrial Wireless Remote-Control Transmitter/Receiver Set	1
WXL-ME-900-2	2-Line Industrial Wireless Remote-Control Transmitter/Receiver Set	2
WXL-ME-900-4	4-Line Industrial Wireless Remote-Control Transmitter/Receiver Set	4

## Available Options

Model Number	Description
DRWC-24-LRANT	Optional 2.4 GHz Long-Range Directional Antenna (up to 1 Mile line-of-site)
DRWC-900-LRANT	Optional 900 MHz Long-Range Directional Antenna (up to 6 Mile line-of-site)

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

© 2019 :: Imagine Instruments LLC :: 4500 Williams Drive, Ste 212-318 :: Georgetown, TX 78633 :: p. 512.778.6850  
e-mail: [info@imagineinstruments.com](mailto:info@imagineinstruments.com) :: [www.imagineinstruments.com](http://www.imagineinstruments.com)

Released: 6 May, 2019 :: Rev: A