



Series: DRWC-2W-24

# Din-rail Wireless Remote Control Transceiver With 2-way Switch/Relay Operation



## FEATURES & BENEFITS

- 2-Way Wireless Bridge Between Switches & Relays
- Activate Either Side with Any Dry-contact Switch
- Models Available With 1 or 2 Control Lines
- Up To 1 Mile Line-of-site Transmit/Receive Distance
- Provides Dual Open-collector Control Output
- Powered By DC Supply or 120V AC
- Easy To Install Din-rail Style Enclosures
- Pre-configured, Ready-To-Operate
- Sold As Two Transceiver Matched Pair
- License Free Radio Operation

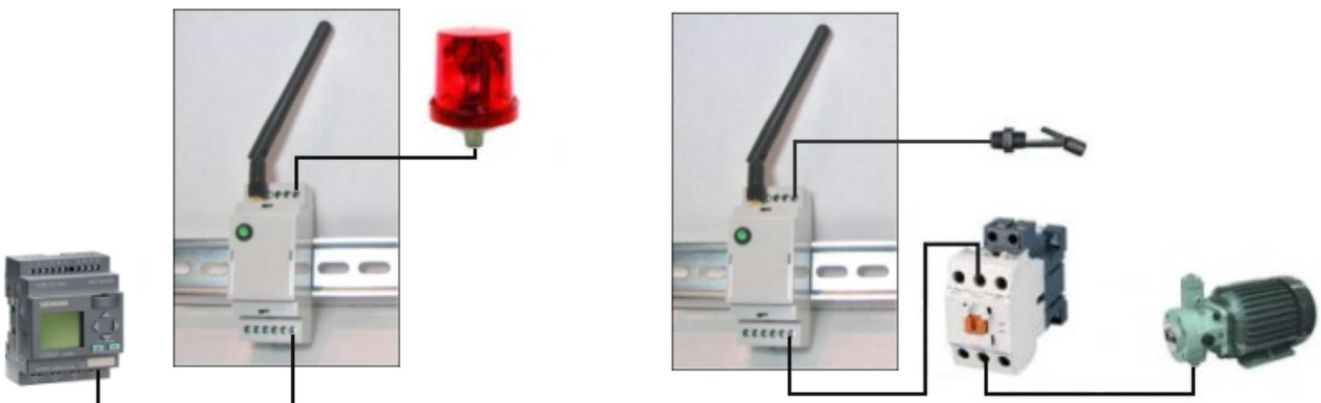
## APPLACATIONS

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

## DESCRIPTION

The DRWC-2W-24 Series Wireless Remote Control System with 2-way operation allows for remotely activating equipment from a distance of up to 1 mile away using license free wireless 802.15.4 communication. Each unit is equipped with up to 2 contact closure inputs that are used to control open-collector outputs on the opposite unit of the matched pair. Models are available with 1 or 2 control lines. Units can be activated with dry-contact switch or connected to a PLC for automated control and feedback.

## Example Application: PLC Providing Pump Control with Level Switch Alarm Feedback



## General Specifications

**Radio Frequency:** ISM 2.4Ghz  
**Regulatory:** FCC Part 95 (No license required)  
**Control Lines:** 1 or 2  
**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  
**Transceiver Code Matching:** Factory set  
**Wire Connection:** Terminal Blocks  
**Operating Temperature:** -22 to 113 °F (-30 to 45 °C)  
**Enclosures:** Din-rail mount (35mm), ABS/PC Blend Plastic

Series: DRWC-2W-24



Includes 9' Antenna Extension Cables

## Transceiver Specifications

**RF Power Output:** 63mW (10mW EU Models)  
**RF Output Impedance:** 50 Ohm nominal  
**Transmit Time:** 250 ms  
**Operating Power:** 6 - 12V DC @ 3W max  
**Input Type:** Dry-contact  
**Receive Sensitivity:** -100 dBm  
**Control Output:** Open-collector, 24Vdc, 100mA Max

## Regulatory Approvals

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

## Available Models

Model Number	Description	Control Lines
DRWC-2W-24-1	Wireless Remote Control Transceiver Pair (USA/CANADA)	1
DRWC-2W-24-1-EU	Wireless Remote Control Transceiver Pair (EU)	1
DRWC-2W-24-2	Wireless Remote Control Transceiver Pair (USA/CANADA)	2
DRWC-2W-24-2-EU	Wireless Remote Control Transceiver Pair (EU)	2

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

© 2015 :: 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: 25 November, 2015 :: Rev: A