



# RD2402D

## *Remote Spread Spectrum Wireless Output Device*

The RD2402 wireless digital output module utilizes reliable Spread Spectrum Mesh Network Radio technology. Together with other wireless transceivers (BACnet™, LonWorks™ & MODBUS), the system can be used to transmit remote control signals wirelessly. The maximum radio transmission distance is dependent on building architecture and layout. The maximum open air transmission distance is one mile. In a typical commercial building with steel I-beam construction, concrete floors with reinforcing rods, and metal stud walls, it can be expected that transmissions will penetrate vertically one floor above and below the location of the sensor and horizontally through 200 to 500 feet of walls, furniture and air. Wireless transceivers or repeaters should be installed within 200 to 500 feet of the RD2402 output module. RR2552 signal repeaters can be installed as needed to increase transmission distance between transceiver and output modules.

The RD2402D is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, [www.workaci.com](http://www.workaci.com).





**SPECIFICATIONS**

<b>Input Power</b>	24 VAC 60 Hz, 300 mA nominal or 24 VDC
<b>Digital Outputs</b>	(2) Pilot Duty Relay Dry Contact Closure   Contact Rating: 1A at 24 VAC maximum
<b>RF Characteristics</b>	Operating Frequency: 902-928 MHz   Transmitter Power: 11 dBm   Receiver Sensitivity: -110 dBm
<b>Operating Temperature Range</b>	32 to 140°F (0 to 60°C)
<b>Operating Humidity Range</b>	5 to 95%, non-condensing
<b>Product Dimensions</b>	Standard Housing: (L) 6.13" (W) 4.62" (H) 2.25"   NEMA 4X Housing: (L) 6.73" (W) 4.76" (H) 2.17"

**ORDERING**

Please select one Wireless Device (A). Choose an Additional Configuration if desired (1).

**A** Wireless Device

- RD2402D** (Output module with 2 digital outputs) (relay contacts)
- RD2402DE** (Same as RD2402D) (NEMA 4X Enclosure)

**1** Additional Configuration

- CK2432D** (Programmable cable required for RD2402D)

**BUILD PART NUMBER**

After completing (A) from the above table, fill in the Part Number Table below. (1) is an Additional Configuration. An example part number is offered.

**A**

EXAMPLE: RD2402DE

**1**

EXAMPLE: CK2432D

Mount the RD2402 Output module as close to the equipment or controller as possible using four #8 screws. Using the RD2402 configuration information, connect the digital outputs to the appropriate control input terminals on the controller using 20 AWG wire.

While the RD2402 is attempting to connect to the receiver, the Data-Link LED will blink rapidly 8-10 times every 10 seconds. Once a connection has been established, the Data-Link LED will blink once. The Data-Link LED will continue to blink once for every successful data transmission.

Connect 24 VAC 60 Hz to the input terminals using 20 AWG wire. Check all connections before applying power to the unit.