

WWP-IIRO-8

Inputs and 8-Channel Relay Output Modules

FEATURES

- Wireless Digital Input / Relay Output Module Pair
- 8 optically isolated digital inputs and 8 SPDT electromechanical relay outputs per unit
- Each input on one unit is mapped to control the corresponding relay automatically in the other
- 7-mile line of site communications over integrated non-licensed FCC radio modems
- Internal removable screw terminal boards for simplified wiring







FUNCTIONAL DESCRIPTION

This product features a pair of intelligent 8-bit parallel digital I/O units that communicate with each other. When an isolated input is toggled on one of the units it will cause the corresponding relay to switch on the other unit. No software or PC connection is required as this solution is completely self-contained and operates autonomously. The units are packaged in NEMA4 enclosures for remote installation in harsh environments. The units communicate at distances up to seven miles with the standard antenna while alternate antennas may be used to boost signal strength.

The eight inputs can be driven by either AC or DC signals and are not polarity sensitive. For dry-contact monitoring applications, simply wire the power supply voltage into the switch circuit. Input signals are rectified by photocoupler diodes. Standard 12/24 AC control transformer outputs can be accepted as well as DC voltages. The input voltage range is 3 to 28 volts (rms). External resistors connected in series may be used to extend the input voltage range. Each input circuit contains a switchable slow/fast filter that has a 4.7 ms time constant, useful to prevent responses to circuit noise and contact bounce. Without filtering, the response is 10 µs.



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SPECIFICATIONS

Power Requirements Voltage Range: Current Range:

General Intelligence: Protection: Memory: NEMA4 box: Weight: Temperature: **Isolated Inputs** Number / Type: Logic Low: Logic High: Isolation: Resistance: **Relay Outputs** Number / Type: Contact Type / Mat'l: Rated Load: Switching Current: Switching Voltage: Contact Resistance: Operate / Release Time: Switching Capacity: Contact Life (mechanical): 7.5 to 15 VDC 130 mA - idle mode, 30 mA – increase per relay activation, 470 mA - maximum

Type 8051 microcontroller family Watchdog Timer circuit 8k RAM & 8k EEPROM 4.53" long by 3.54" wide by 2.17" high 19.0 oz each (38.0 oz total) 0-65°C Operating

Eight / Non-polarized, optically isolated -0.5 V to 0.8 V (CMOS compatible) +3.0 V to +33.0 V 60V channel-to-ground or chl-to-chl 1.8kΩ in series w/2 diodes and an LED

Eight / SPDT (form C) Single Crossbar / Silver + Gold-clad 0.5 A at 125 VAC; 1 A at 24 VDC 1 A (max) 125 VAC; 60 VDC (max) 100 m Ω (max) 5 ms 62.5 VA; 30 W (max) 5 million operations

Radio

Freq: 902 to 928 MHz, Unlicensed ISM Band Type: Frequency Hopping Spread Spectrum Communication rate: 9600 baud Transmit Power: 100mW Receiver Sensitivity: -110dBm Outdoor Range: Up to 7 miles (line of sight) Interference Rej: 70dB at pager and cell freq. Impedance: 50 Ω nominal Gain: 2.1 dBi Length: Polarization: Vertical Half Wave Wave: SMA reverse polarity plug Connector: ORDERING GUIDE WWP-IIRO-8 Pair of WWM-IIRO-8's (8 Inputs / 8 Relays x 2) WWP-II-8/RO-8 Pair of WWM-II-8 / WWM-RO-8 (8 Inputs / 8 Relays) Options -HG High-Gain Antennas OTHER VERSIONS AVAILABLE WWP-RA1216-I 12-Bit Analog Input Signal Conditioner, accepts eight 4-20mA inputs, wirelessly transmits data to WWP-RDAG12-8 Module WWP-RDAG12-8 12-Bit Analog Output Pod, receives wireless transmissions from WWP-RA1216-I Module and repeats eight 4-20mA values sensed

