

Wireless 4-20mA Transmitter/Receiver System



FEATURES & BENEFITS

Provides Wireless Bridge for 4-20mA Loop Signal Receiver Output Mirrors Transmitter Input Receiver Provides 4-20mA or 1-5V DC Output Includes One Bi-directional Control Line Up To 1 Mile Line-of-site Transmit/Receive Distance 12-24V DC Operation Standard Plastic Din-rail Enclosures Pre-configured, Ready-To-Operate Sold As Transmitter/Receiver Matched Set License Free Radio Operation

APPLACATIONS

Process Transmitter Signals Valve Positioning & Control Remote Sensor Monitoring

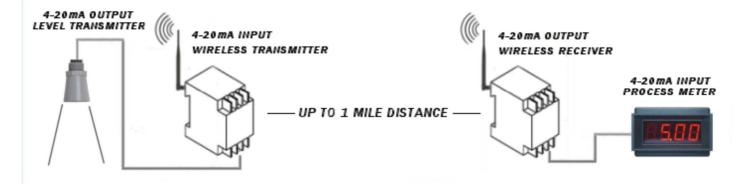
DESCRIPTION

IMAGINE

Instruments

The WDRXL-24-420MA Wireless Analog Transmitter/Receiver System allows for remotely monitoring or controlling equipment from a distance up to 1 mile away using license free wireless 2.4GHz 802.15.4 communication. Each set features one 4-20mA analog signal input and output. Both the transmitter and receiver are also equipped with one contact closure input that is used to control an open-collector output on the opposing unit for additional control or alarm functionality

Example Application: Level Transmitter Sending Readings to a Remote Process Meter



General Specifications

Series: WDRXL-24-420MA

Radio Frequency: ISM 2.4Ghz Regulatory: FCC Part 95 (No license required) Process Input Lines: One 4-20mA Signal Transmit/Receive Accuracy: +/- 0.5% of range Open Input or Lost Signal Condition: Output goes below 4mA Reading Update Rate: 250ms Control Lines: 1 Bi-directional 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 113 °F (-30 to 45 °C) Enclosures: Plastic Din-rail

Transmitter Specifications

RF Power Output: 63mW RF Output Impedance: 50 Ohm nominal RF Data Rate: 250 kbps Operating Power 12 - 24V DC @ 3W max Control Line Input: One Dry-contact Switch Control Output: One Open-collector, 12-24V DC, 1.2W Max Process Input: Analog 4-20mA

Receiver Specifications

Receive Sensitivity: -100 dBm Operating Power: 12 - 24V DC @ 3W max Control Line Input: One Dry-contact Switch Control Output: One Open-collector, 12-24V DC, 1.2W Max Process Output: Analog 4-20mA or 1-5V DC



Includes 5dbi Antennas and 9' Antenna Extension Cables



Optional Long Distance Antenna Set

Regulatory Approvals

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

| Model Number | Description |
|----------------|--|
| WDRXL-24-420MA | Wireless Din-rail Mount 4-20mA Transmitter/Receiver Set (USA/CANADA) |

Available Options

| Model Number | Description |
|---------------|---|
| DRWC-24-LRANT | Optional Long Range Directional Antenna (up to 1 Mile line-of-site) |

Note: Continued product improvements make specifications subject to change without notice. Check www.imagineinstruments.com for the latest product information and updates

Level Sensor and Process Meter shown are not included and are shown for reference only.

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