



Series: **WIDXL-900-420MA**

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 6 Miles Line-of-site Transmit/Receive Distance
- 12-24V DC Operation
- NEMA 4, 4X Powder Coated Aluminum Enclosures
- Pre-configured, Ready-To-Operate
- Sold As Transmitter/Receiver Matched Set
- License Free Radio Operation

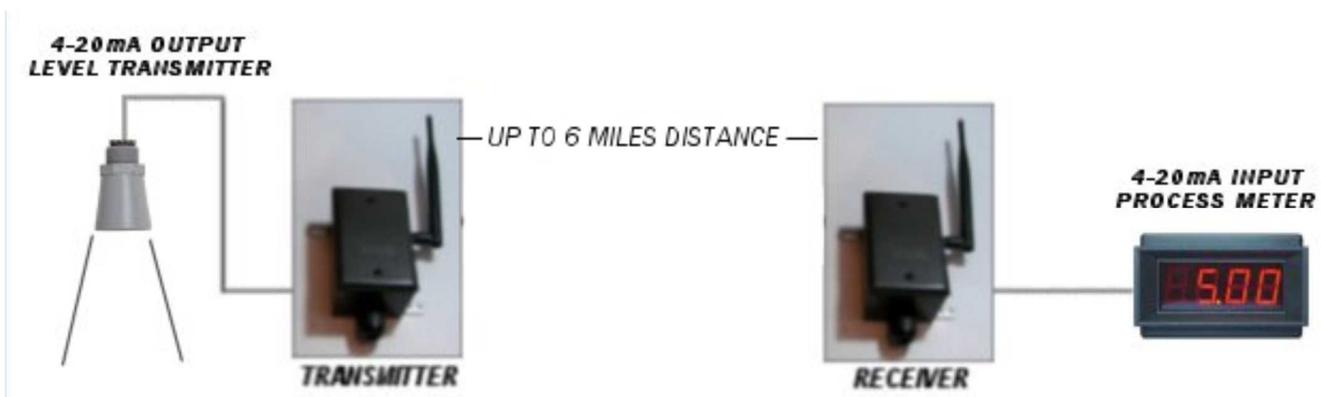
APPLACATIONS

- Process Transmitter Signals
- Valve Positioning & Control
- Remote Sensor Monitoring

DESCRIPTION

The WIDXL-900-420 Series Wireless 4-20mA Transmitter / Receiver System provides a wireless bridge for 4-20mA signals. You can send readings from industrial sensors up to 6 miles away by means of a wireless RF signal. When a 4-20mA input measured by the transmitter is recreated by the receiver which in turn produces a mirror output that matches the same value seen by the transmitter. Units also include one bi-directional control line.

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



General Specifications

Radio Frequency: 900 MHz
Regulatory: FCC Part 15 (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: Urban 1000ft, Line-of-site 3 Miles
with optional antennas: Urban 1600ft, Line-of-site 6 Miles
Transmitter/Receiver Code Matching: Factory set
Wire Connection: Terminal Blocks
Operating Temperature: -22 to 113 °F (-30 to 45 °C)
Enclosures: NEMA 4, 4X, Powder Coated Aluminum

Transmitter Specifications

RF Power Output: 100mW
RF Output Impedance: 50 Ohm nominal
RF Data Rate: 10 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
Max Output Load @ 24V: 600 Ohms

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Includes 5dbi Antennas and 9' Antenna Extension Cables



Optional Long Distance Antenna Set

Regulatory Approvals

FCC (USA) - MCQ-XBEEESC
IC (Canada) - 1846A-XBEEESC

Model Number	Description
WIDXL-900-420MA	Industrial Wireless 4-20mA Transmitter/Receiver Set (USA/CANADA)

Available Options

Model Number	Description
DRWC-900-LRANT	Optional Long Range Directional Antenna (up to 6 Miles 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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