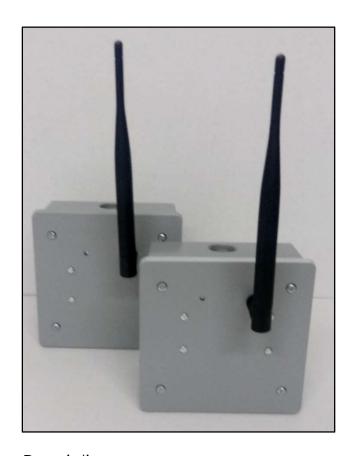


Wireless 4-20mA Transmitter / Receiver Set



FEATURES & BENEFITS

Wireless Bridge Between Sensor & Instrument
Receiver Output Mirrors Transmitter 4-20mA Input
Receiver Provides 4-20mA or 1-5V DC Output
Up To 6 Miles Line-of-site Transmit/Receive Distance
Powered by any 12V-24V DC Supply
NEMA 4X Rugged 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 XTR-WRC420 Wireless Analog Transmitter/Receiver System allows for remotely monitoring or controlling equipment from a distance up to 6 miles away using license free wireless radio communication. Each set features one 4-20mA analog signal input and output. Each system is sold as a factory programmed matched set. That means there is no field settings needed to operate right out of the box.

Transmitter Operation

The wireless 4-20mA analog signal transmitter reads analog input data from temperature, pressure, strain, flow, level or RH sensors and then sends the measured data over the air to a remote location. The measured 4-20mA current signals are converted to digital packets and then transmitted via a license free radio transmission to a waiting control receiver. The transmitter also includes one dry-contact switch input that controls one open collector output on the opposing control receiver.

Receiver Operation

The wireless 4-20mA analog receiver decodes any incoming radio packets and converts them back into the same 4-20mA current signal that is being measured by the transmitter in real time. The control receiver also includes one dry-contact switch input that controls one open collector output on the opposing transmitter.

General Specifications

Radio Frequency: 900Mhz

Regulatory: FCC Part 15 (No license required)

Control Lines: 1

Antenna Connection: RP-SMA

Antennas: 7dbi, Omni-directional (Included)

Transmit/Receive Distance: with included antennas:

Indoor/Urban 1000ft, Line-of-site 3 Miles

with optional antennas:

Indoor/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 4X, PVC

Transmitter Specifications

RF Power Output: 100mW

RF Output Impedance: 50 Ohm nominal

RF Data Rate: 10 kbps

Operating Power 12-24V DC @ 3W max

Input Type: Analog 4-20mA

Receiver Specifications

Receive Sensitivity: -100 dBm

Operating Power: 12-24V DC @ 3W max **Output:** Analog, 4-20mA or 1-5V DC

Series: Series: XTR-WRC420



Each Set Includes 7dbi Antennas and 9ft Antenna Extension Cables



Optional 6 Mile Distance Antenna Set

Regulatory Approvals

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

Available Models

Model Number	Description	Control Lines
XTR-WRC420	Industrial Wireless 1-Line 4-20mA Transmitter/Receiver Set	1

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

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