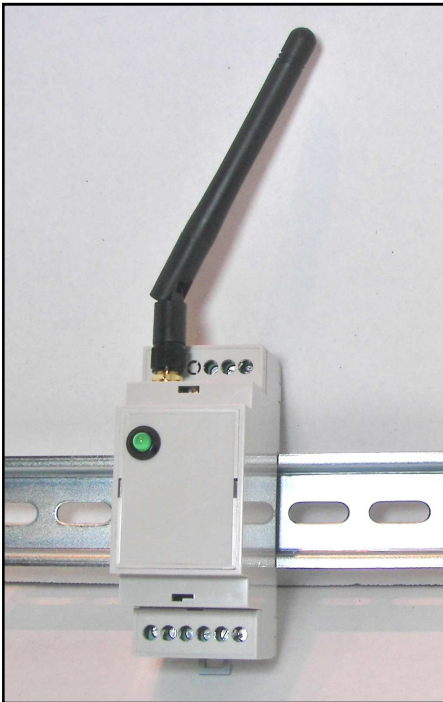




Model: DRWS-420

Din-rail Wireless 4-20mA Transmitter/Receiver Set



FEATURES & BENEFITS

- Wireless Bridge Between 4-20mA Sensor & Instrument
- Sold As Transmitter/Receiver Factory Match Set
- Up To 1 Mile Line-of-site Transmit/Receive Distance
- Adds Wireless Capability To Any Existing System
- Can Be 12-24VDC Battery or Solar Powered
- Easy To Install Din-rail Style Enclosures
- License Free Point-to-point Radio Operation

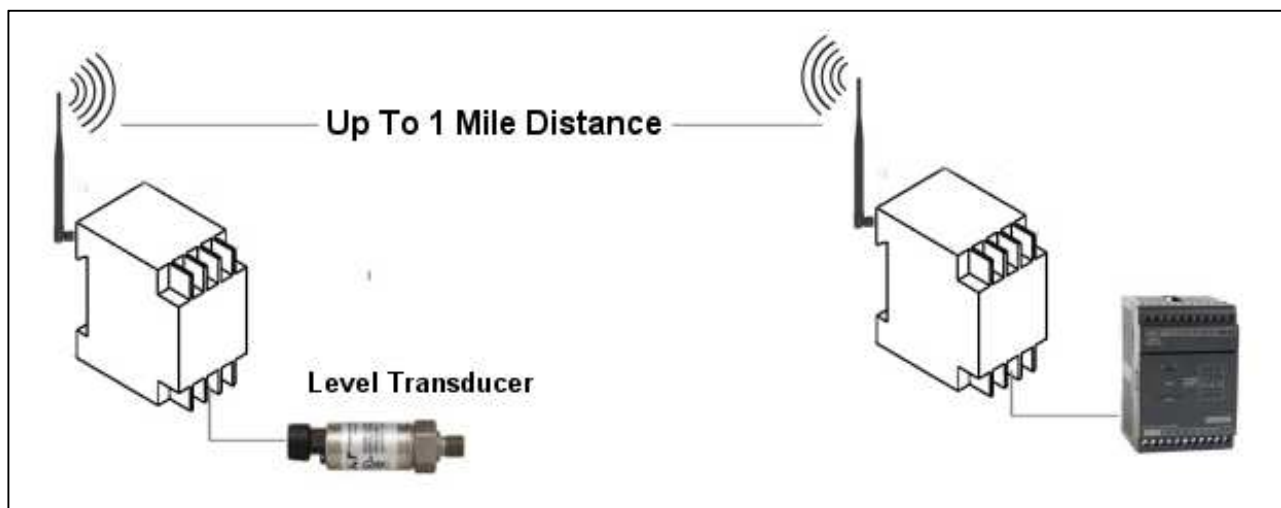
APPLICATIONS

- Tank Level Monitoring
- Process Controls & Instrumentation
- Add Wireless Capability To Existing Application

DESCRIPTION

Model DRWS-420 Wireless 4-20mA Transmitter/Receiver Set provides a wireless bridge between any 4-20mA loop powered sensor and a 4-20mA input process monitoring or control Instrument. The 4-20mA analog current readings from a sensor connected to the transmitting unit are sent via a license free radio signal to a receiver unit up to 1 mile (Line-of-site) away. The receiving unit reproduces an accurate 4-20mA analog output that matches the 4-20mA signal

SAMPLE APPLICATION SHOWING LEVEL SENSOR SENDING WIRELESS 4-20MA READINGS TO REMOTE PLC DEVICE



General Specifications

Radio Frequency: 2.4Ghz
RF Output Impedance: 50 Ohm nominal
Transmitter/Receiver Code Matching: Factory set
Wire Connection: Terminal Blocks
Operating Power: 24Vdc @ 250mA
Operating Temperature: -10 to 130 °F (-23 to 54 °C)
Enclosure: Plastic (Indoor or protected use only)
Antennas: Includes 3dBi Antennas
Transmit/Receive Distance (-USCA Model):
Up to 400' Line-of-sight (With Included 3dbi Antennas)
Up to 1700' Line-of-sight (With Optional 7dbi Antennas)
Up to 1/2 Mile Line-of-sight (With Optional 12dbi Antennas)
Transmit/Receive Distance (-EU Model):
Up to 100' Line-of-sight (With Included 3dbi Antennas)
Up to 200' Line-of-sight (With Optional 7dbi Antennas)
Up to 300' Line-of-sight (With Optional 12dbi Antennas)

Model: **DRWS-420**



Optional Antenna - AT24-7DBI-OD-RP-SM (Top) and AT24-3DBI-OD-RP-SM (Bottom)

Transmitter Specifications

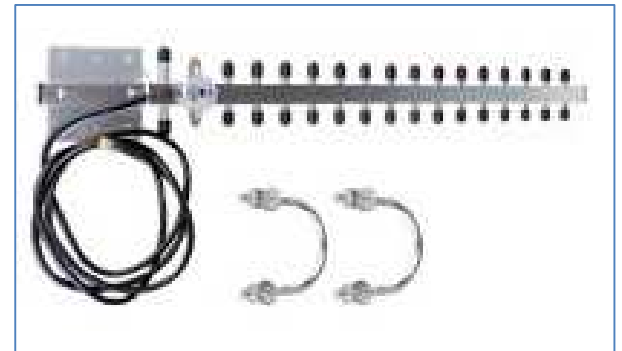
Input Signal: Analog Current 4-20mA
RF Power Output: 63mW (10mW -EU Models)
RF Data Rate: 250 Kbps
Transmit Rate (Factory Set): Every 1 Second

Receiver Specifications

Receive Sensitivity: -100 dBm
RF Input Impedance: 50 Ohm nominal

Available Models & Options

Model Number	Description
DRWS-420-USCA	Transmitter/Receiver Set (USA/Canada)
DRWS-420-EU	Transmitter/Receiver Set (EU)
AT24-7DBI-OD-RP-SMA*	7dbi Medium Range Antenna
AT24-9DBI-YD-RP-SMA*	9dbi Long Range Antenna



Antenna Model AT24-9DBI-YD-RP-SMA Shown

Regulatory Approvals

Regulatory: FCC Part 95 (No license required)
FCC(USA): OUR-XBEEPRO
IC (Canada): 4214A-XBEEPRO

*Optional Antenna. Order 2 each when these antennas are needed.

Each Wireless 4-20mA Transmitter/Receiver Set includes 3dBi Antennas, 9' Antenna Extension Cables, Antenna Mounting Brackets and User Manuals.

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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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