



Model: DRWS-24-AV

Wireless Analog Voltage Transmitter/Receiver Set



FEATURES & BENEFITS

- Wireless Bridge Between Voltage Signal & Instrument
- 0-1, 0-5, 0-10 and 0-20V DC Input/output Range
- Sold as Transmitter/Receiver Factory Match Set
- Up To 1 Mile Line-of-site Transmit/Receive Distance
- Adds Wireless Capability to Any Existing Application
- Powered By 12-24V DC or 120V AC with Power Adapter
- Enclosures Mount on Standard 35mm Din-rail Track
- License Free Point-to-point Radio Operation

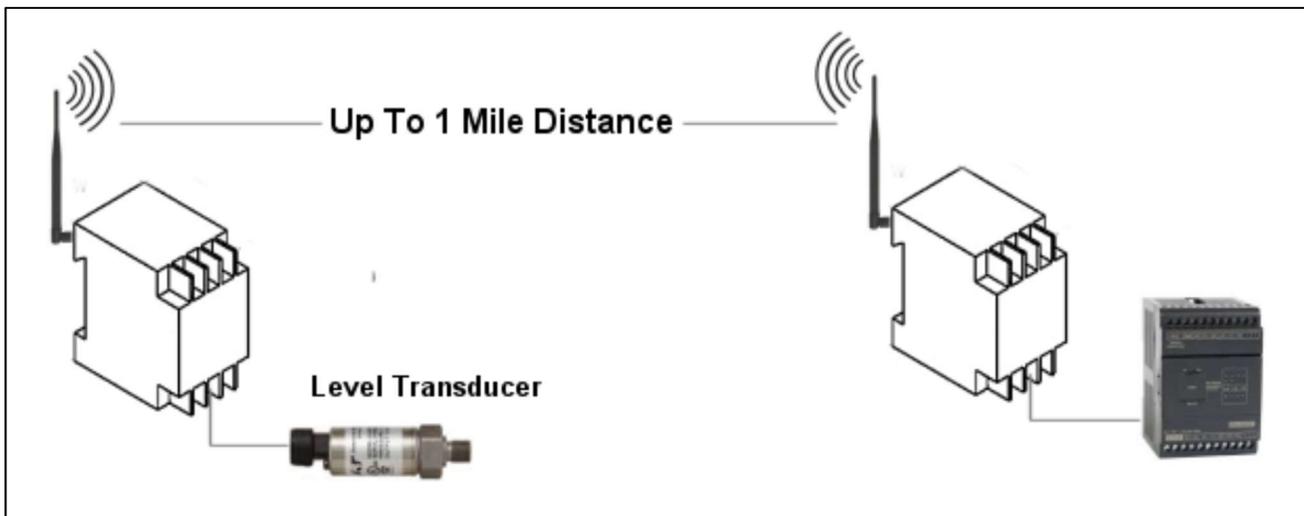
APPLICATIONS

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

DESCRIPTION

Model DRWS-24-AV Wireless Analog Voltage Transmitter/Receiver Set provides a wireless bridge between any process voltage signal and a voltage input process monitoring or control Instrument. The voltage readings 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 analog voltage output that mirrors the voltage input signal to the transmitter. Four models are available with input/output ranges of 0-1, 0-5, 0-10 or 0-20V DC.

SAMPLE APPLICATION SHOWING LEVEL SENSOR SENDING WIRELESS VOLTAGE SIGNAL 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: 12-24V DC @ 200mA
Operating Temperature: -10 to 130 °F (-23 to 54 °C)
Enclosure: Plastic (Indoor or protected use only)
Antennas: 5dBi Antennas (Included)
Transmit/Receive Distance:
Indoor/Urban 300ft, clear line-of-site 600ft
Indoor/Urban 600ft, clear line-of-site 1 Mile (With Optional Antennas)

Transmitter Specifications

Analog Voltage Input: One (0-1, 0-5, 0-10, or 0-20V DC)
ADC Accuracy: 10 bit
RF Power Output: 63mW
RF Data Rate: 250 Kbps
Analog Update Rate (Factory Set): Every 1 Second

Receiver Specifications

Receive Sensitivity: -100 dBm
RF Input Impedance: 50 Ohm nominal
Analog Voltage Output: One (0-1, 0-5, 0-10, or 0-20V DC)
Output State if RF Signal Loss: Holds Last Reading

Available Models & Options

Model Number	Description
DRWS-24-AV1	0-1V DC Transmitter/Receiver
DRWS-24-AV5	0-5V DC Transmitter/Receiver
DRWS-24-AV10	0-10V DC Transmitter/Receiver
DRWS-24-AV30	0-20V DC Transmitter/Receiver
*AT24-12DBI-YD-RP-SMA	12dbi Long Range Yagi Antenna

*Optional Antenna. Order 2 each for each transmitter/receiver set.

Each Wireless Voltage Transmitter/Receiver Set includes 5dBi Antennas, 9' Antenna Extension Cables, Antenna Mounting Brackets and User Manual.

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WARNING . . . Not to Be Used for Personnel Protection

Never use these products for personnel protection applications. Doing so could lead to severe injury or death. These devices do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A device failure or malfunction can cause an unsafe output condition.

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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Included 5dBi Antennas



Optional Antenna AT24-12DBI-YD-RP-SMA

Regulatory Approvals

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