



Wireless That Makes Perfect Sense

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Universal Wireless Transmitter Quick Setup Sheet WV1P/WV2P

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| | |
|--------------------------------------|--|
| Transmitting Frequency: | WV1P: 418 MHz: no license required WV2P: 433 MHz: no license required |
| Environmental Classification: | NEMA 4X |
| Battery: | 3.6V lithium battery (AA) |
| Battery Life: | 2-5 years |
| Temperature Range: | -25°C to 70°C (-13°F to 158°F) |
| Range: | 600 feet ⁽¹⁾ |
| Transmission Rate: | 10 to 17 seconds (random) |

| Parts List: | <table><tr><th>Quantity</th><th>Part</th></tr><tr><td>1</td><td>Universal Wireless Transmitter</td></tr><tr><td>2</td><td>1" x 2" Dual-Lock Strips</td></tr><tr><td>4</td><td>#6 x 1" Self-Drilling Screws</td></tr></table> | Quantity | Part | 1 | Universal Wireless Transmitter | 2 | 1" x 2" Dual-Lock Strips | 4 | #6 x 1" Self-Drilling Screws |
|--------------------|--|----------|------|---|--------------------------------|---|--------------------------|---|------------------------------|
| Quantity | Part | | | | | | | | |
| 1 | Universal Wireless Transmitter | | | | | | | | |
| 2 | 1" x 2" Dual-Lock Strips | | | | | | | | |
| 4 | #6 x 1" Self-Drilling Screws | | | | | | | | |

Description:

VenTek's WV1P/WV2P Universal Wireless Transmitter is a low-power self-configuring device with a 600 ft⁽¹⁾ range and will configure itself to work with any VenTek V-Bus sensor. The transmitter sends data from the sensor at random intervals between 10 and 17 seconds. It remains turned off until a V-Bus sensor is plugged in. The expected average battery life is 2-5 years, depending on the sensor being used.

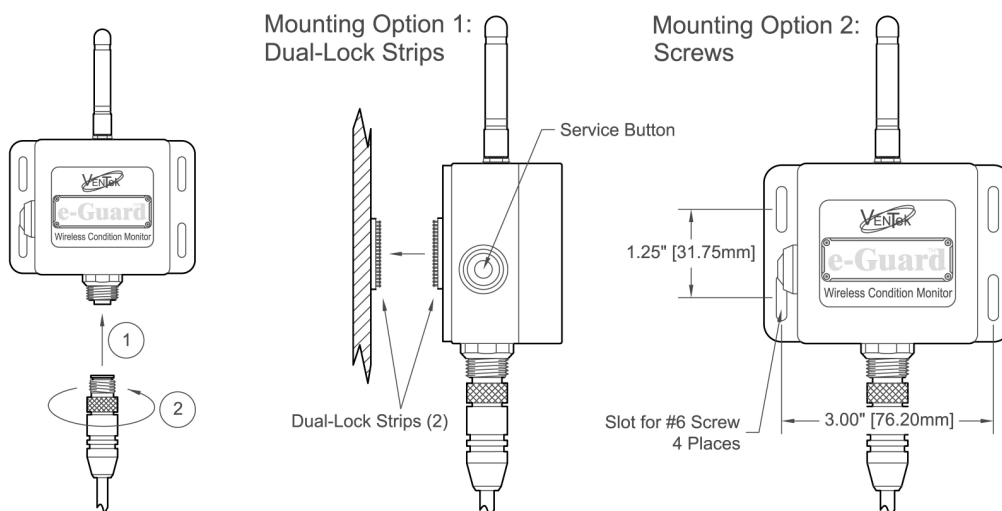
Mounting:

Install the transmitter away from metal objects such as steel beams, catwalks and shelving. Such objects may interfere with the transmission signals. The preferred mounting surface is non-metallic. If the mounting surface is metallic, the receiver should be in front of the *Universal Wireless Transmitter* (See VenTek document TIPS1 for more information).

Option 1: Attach transmitter to mounting surface using the provided Dual-Lock Strips.

Option 2: Attach transmitter to mounting surface using the provided #6 x 1" self-drilling screws.

Option 3: Attach transmitter to mounting surface using an **optional** Mag-Mount Universal Mounting Bracket (P/N# UMB-S2N) - not shown.



(1) Typical line-of-site transmitter range. VenTek recommends that a site survey should be conducted to find the best locations for transmitters and receivers.



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Monitor Setup:

1. Connect the *WV1P/WV2P Universal Wireless Transmitter* to a VenTek *V-Bus Sensor* and tighten securely. This connection powers the wireless monitor system. Disconnect sensor to turn monitor off.
2. Press the transmitter's service button to configure it to the sensor's specifications.
3. When the monitor system is active, the LED on the sensor will flash every 10 to 17 seconds. Pressing the service button will immediately flash the LED to indicate the functionality of the monitor.

e-Guard OPC Data Manager - Quick Sensor Setup:

1. Start e-Guard OPC Data Manager (consult installation instructions if software is not already installed).
2. Click the **Server Settings** menu, then **Device Registration** in the upper left corner.
3. Press the transmitter's service button to register the sensor. Its serial number will appear in the *SN* column with default values appearing in the other columns (serial numbers are listed sequentially).
4. Modify e-Guard software settings as desired:

| Column | Default Value | Permissible Entries |
|-------------------|-------------------|--|
| Topic | Sensor serial no. | Alphanumeric characters (25 max; blanks and dashes ok) representing sensor <i>name</i> |
| Active | Yes | Yes = e-Guard OPC Data Manager publishes sensor data No = e-Guard OPC Data Manager does not publish sensor data |
| Dashboard | Yes | Yes = Sensor data is logged in the database No = Sensor data is not logged in the database |
| ShowTile | Yes | Yes = Sensor data is displayed on a tile in the e-Guard Dashboard No = Sensor data is not displayed in the e-Guard Dashboard |
| Baseline | 0 | Integer value (6 digits max) representing the baseline measurement value for the specific sensor (example: Motor A normally runs at 45°C; enter "45" for the baseline value). Appears as a reference in the e-Guard Dashboard. |
| TransmitFrequency | 12 | DO NOT CHANGE – this value is used to calculate sensor efficiency |
| SaveInterval | 1 | Integer value between 0 and 32,767 specifying the data logging interval for the VenTek Sensor Database in <i>minutes</i> . A zero (0) value will log every data packet. |

5. Close the **Registered Devices** window when finished. The window will close automatically after 1 minute of inactivity.
6. Leave e-Guard OPC Data Manager running to continue data logging. Close the program to end.
7. Refer to the Quick Setup Sheet that came with your sensor for further setup instructions.

Wireless Communication Conditions of Use:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by VenTek, LLC for compliance could void the user's authority to operate the equipment.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 2 dBi. Antennas not included in this list or having a gain greater than 2 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Approved Antennas: ANT1N44RM; ANT1N44SM (included)

FCC Information:

FCC ID: UVS-WV1P

IC: 6886A-WV1P