

Wireless Receiver and Server WRX & WSRX


Description

The **Wireless Receiver (WRX)** receives wireless transmissions from wireless devices and communicates the data back to the central computer via the network cable. Wireless Receivers are connected in series using a CAT5 cable and are terminated with RJ45 modular plugs. One Wireless Receiver covers an area of approximately 100 feet square depending on building construction. The Wireless Server Receiver (WSRX) is a variation of the Wireless Receiver that controls the wireless portion of the communications. Typically one WSRX is required per building.

Enclosure Dimensions	5.5" x 3" x 1"
Antenna	6.25" Detachable Nearson 900MHz ISM Band. Model 161.
Cable Type	CAT5 or CAT5E 4 Pair 24AWG
Connectors	RJ45 Modular Plug (AMP)

Mounting Instructions

- Screw mount to wall or ceiling using mounting holes and appropriate mounting hardware for location. Mounting hardware not supplied.
- Typically mounted above the ceiling tile in a corridor. Mount vertically on the wall above the ceiling tile, with the antenna pointing downward. Antenna does not need to protrude below tile.
- Alternately, receivers can be mounted below the ceiling or on the ceiling. See below for mounting orientation options. If mounting on a horizontal surface a 90-degree antenna will be required.
- Screw antenna onto WRX. Position 90-degree antenna vertically as appropriate.

 **Do not mount Wireless Receivers on or near metal objects (HVAC, I Beams, etc) or electrical devices (motors, high voltage switching, etc) as they can interfere with the wireless signals**



WRX with 90° antenna

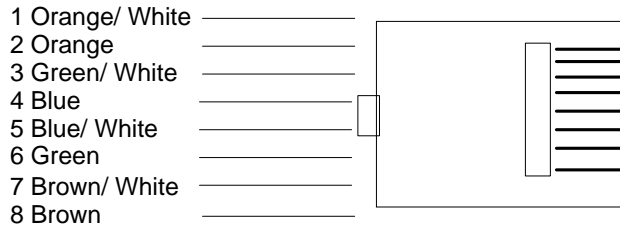


WRX with straight antenna

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Wiring and Connections

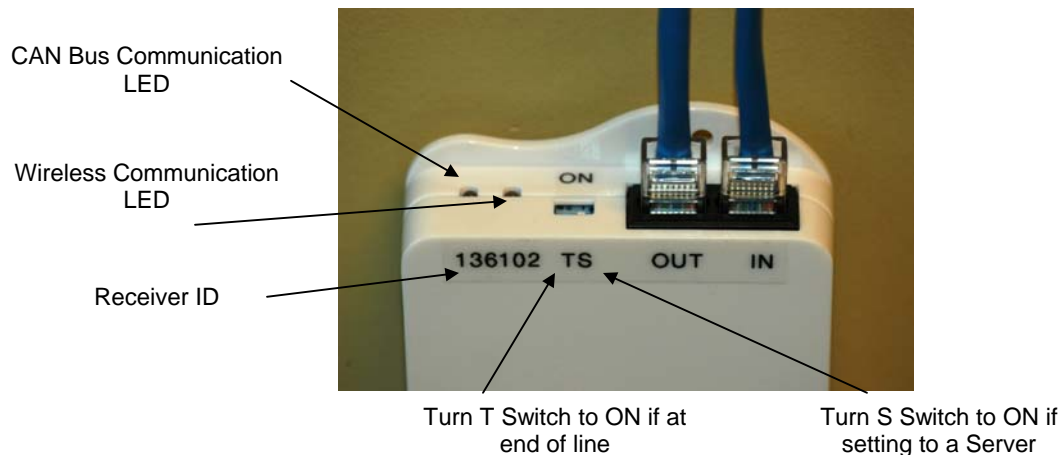


RJ45 Standard Pinout
Hook is underneath

Conductor	Use
Orange/ White	+ 24 VDC
Orange	+ 24 VDC
Green/ White	+ 24 VDC
Blue	DATA HI
Blue/ White	DATA LO
Green	GND
Brown/ White	GND
Brown	GND

Installation Instructions

1. Terminate incoming and outgoing CAT5 cables on RJ45 modular plugs as shown above. Use supplied AMP plugs or approved equivalent. Ensure cables are labelled appropriately.
2. After connecting the modular plugs on both ends of the cable, use an approved network cable tester to verify the connections on both ends. All pins must be connected straight through.
3. Once both ends of the cable are tested, plug the cable coming from the direction of the central equipment into the socket marked "IN" and plug the cable going to the next receiver into the socket marked "OUT".
4. Set dipswitches as follows:
 - a. If receiver is at the end of the line (no outgoing run) set the Terminating Resistor to ON by turning the switch labelled "T" toward the base of the unit (labelled ON)
 - b. If the receiver is a WSRX (Server) set the unit to Server mode by turning the switch labelled "S" toward the base of the unit (labelled ON)



Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PHYSICAL		ELECTRICAL	
Height	139.7mm (5.5")	Operating Voltage	10-40V DC
Width	76.2mm (3")	Wireless	900MHz FHSS Transceiver
Depth	25.4mm (1")	Operating Current	35mA, 85mA burst
Weight (with antenna)	141 grams		
Enclosure	High impact white plastic enclosure		
Temperature Ratings	Operating:	WRX01 – FCC ID UI6-WRX01	
	Storage/Transport	WSRX01 – FCC ID KQL-AC4490	
<p><i>Compliance:</i> 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.</p>		<p><i>Warning:</i> This equipment has been approved for portable applications where the equipment can be used in direct contact with the human body. Excessive RF exposure should be avoided.</p>	

Limited Warranty

Vigil® Health Solutions Inc. (Vigil) warrants all products bearing the Vigil® name ("the Product" or "Products") to be in conformance with specifications and free from defects in materials and workmanship for a period of one (1) year (unless otherwise stated) from date of shipment and will repair or replace (at our option), any unit that is found to be defective and returned to us under warranty.

To exercise the warranty the product must be returned to Vigil freight prepaid and insured. Vigil reserves the right to make the final decision whether there is a defect in materials or workmanship, and whether or not the product returned is within the warranty.

This warranty does not cover damage due to normal wear and tear, improper installation, accident or tampering, misuse or neglect, or where goods have been subjected to operating or environmental conditions exceeding those stated in the applicable specifications and extends to include floods, fire, lightening and any other such acts of nature.

This warranty shall apply to the Product only. All other products distributed by Vigil and made by others are covered by the manufacturer's warranty. All products, accessories, or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. Vigil shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially, or otherwise, caused by the malfunction of the Product due to products, accessories, attachments of others, including batteries, used in conjunction with the Products.

The foregoing warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied or arising under law. In no case shall Vigil be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

Vigil shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential, or otherwise based on a claim that the Product failed to function. However, if Vigil is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of the cause or origin, Vigil's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against Vigil.

Vigil Health Solutions Inc. reserves the right to modify the appearance, operation and functionality at its discretion.