

Wireless Receiver

USER MANUAL



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Revision History

April 20, 2015	Initial release
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Notice

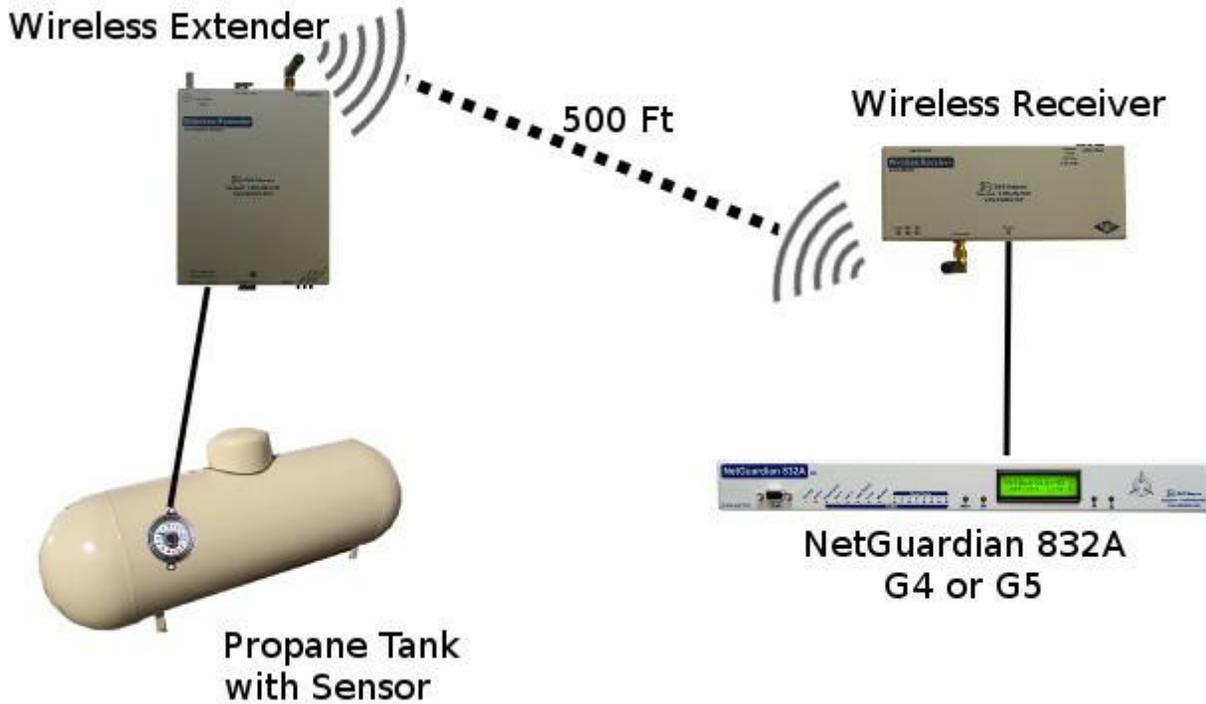
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1 Wireless Receiver Overview



This diagram shows a typical application using the WIREX Receiver.

A propane sensor is installed at the tank and connected to a Wireless Extender. The Wireless Extender interfaces with the nearby Wireless Receiver connected to a NetGuardian RTU. Propane levels are then transmitted at a configured interval (default is once per day) to ensure proper levels. However, if the power fails (and therefore the generator runs), the propane levels can be configured to transmit more frequently. This provides thorough visibility while extending the battery life. This solution provides convenient access to monitor propane levels wirelessly from a NetGuardian RTU.

2 Specifications

Hardware

Dimensions:	2.50" H x 6.50" W x 1.125" D	Modem:	N/A
Mounting:	Wall, Rack or Panel Mount	Discrete Alarm Inputs:	N/A
Weight:	9oz. (0.255 kg)	² Discrete Alarm Length:	N/A
Power Input:	12VDC (From NetGuardian) 48VDC (option)	Analogs:	N/A
³ Current Draw:	0.5 mA @ 12V	Input Range:	N/A
Fuse:	Internal PTC Fuse	⁴ Analog Accuracy:	N/A
¹ Power Outputs:	N/A	Control Outputs:	N/A
Voltage Output Options:	N/A	Max Voltage:	N/A
Output Current:	N/A	Max Current:	N/A
Output Fuse:	N/A	Operating Temp:	32° to 140°F (0° to 60°C)
Audible Interfaces:	N/A	¹ Industrial Operating Temp:	-22° to 158°F (-30° to 70°C)
Visual Interfaces:	4 LEDs	Storage Temp:	22° to 176°F (-30° to 80°C)
¹ Hardware Interfaces:	1 RS232 Serial Port 900Mhz XBee Module	Operating Humidity:	95% non-condensing
		MTBF:	60 Years
		RoHS:	RoHS 5 Approved
		Ordering Options:	N/A

Software

Downloadable Firmware:	N/A	¹ D-Wire Sensor Support:	N/A
Built-in Web Interface:	N/A		N/A
Browser Support:	N/A	Ping Alarms:	N/A
Protocols:	DSCP	OS Support:	N/A
SNMP Support:	N/A		

Note:

¹ Valid if hardware option is included.

² Minimum lengths determined with TTL voltage level alarms. Actual distance may vary.

³ Current measured at rated voltage with all controls latched and all alarms triggered.

⁴ See analog section in manual for detailed analog accuracy breakdown.

* This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

3 Shipping List

Please make sure all of the following items are included with your device. If parts are missing, or if you ever need to order new parts, please refer to the part numbers listed and call DPS Telecom at **1-800-622-3314**.



WIREX Receiver
D-PK-WIREX-12004



User Manual
D-UM-WIREX



Resource Disk



x 1

Rollover Cable

D-PR-1902-10A-06



Power Connector Plug
2-820-35102-00



x 1

Wireless Antenna
2-901-00802-00

Sold Separately



Propane Sensor
D-PK-SENSR-12006



3.6V Battery Size 'D'
D-PK-BATRY-12004



Wireless Extender
D-PK-WIREX-12006

4 Installation Tools Required

To install the propane monitoring equipment, you'll need the following tools:



Phillips No. 2 Screwdriver



Small Standard No. 2 Screwdriver

5 Hardware

5.1 Power Connection

The Wireless Receiver is powered by a screw terminal barrier plug power connector.



Screw terminal barrier plug.

Note: Always use safe power practices when making power connections. Be sure to remove fuses from the fuse distribution panel, as well as the back of the unit, before making your power connections.

To connect the unit to a power supply:

1. Use the grounding lug next to the  symbol to connect the unit to earth ground.
2. Insert the eyelet of the earth ground cable between the two bolts on the grounding lug (Ground cable not included).
3. Insert a battery ground into the power connector plug's right terminal and tighten the screw.
4. Insert a battery lead to the plug's left terminal and tighten its screw.
5. Insert fuse into the fuse distribution panel.
6. Check the power status LED for polarity.
7. Measure the voltage by connecting the black cable onto the ground connector of your DVM and the red cable onto the other connector of your DVM.
8. If the voltage does not read between the range displayed on the unit, stop immediately.

Note: The voltage range will depend on build and power input source. If you experience any issues with powering your unit, contact DPS Telecom technical support at 559-454-1600 or support@dpstele.com

Note: The voltage terminal is on the left and the GND terminal is on the right.

9. Verify that the  LED is illuminated

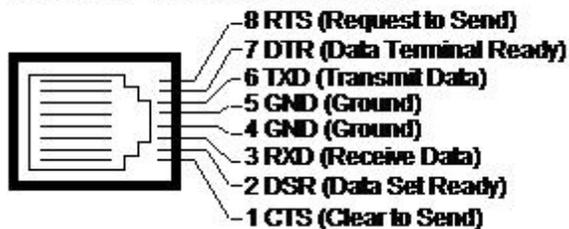
5.2 Setup

Using an RS232 cable, connect the wireless receiver to the host NetGuardian.



1. Insert one end of the RS232 serial cable into the Serial Port input on the wireless receiver.
2. Insert the other end of the RS232 serial cable into one of the ports on the host NetGuardian.
3. From the web interface on the host NetGuardian, configure that specific serial port (see the 'Configuring DSCP Devices' section of the host NetGuardian's user manual).

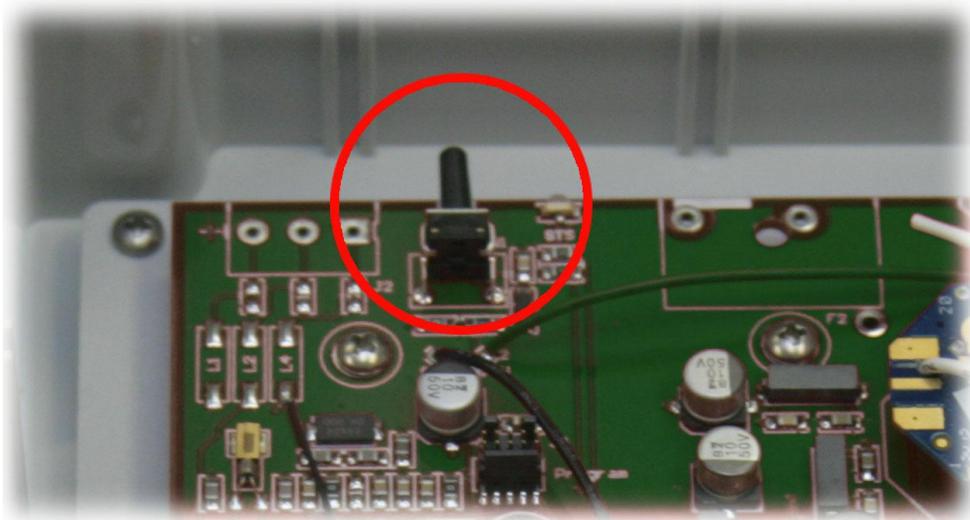
Yost RS-232 RJ45 Connector



RS232 Serial Port Pinout (use included Rollover Cable).

5.3 Reset and Syncing

In order to sync the unit to the host NetGuardian, first log on to the host's web interface and make sure it is properly configured to receive wireless communication from the wireless extender connected to the propane sensor (see the 'Configuring DSCP Devices' in the host NetGuardian's user manual).



Sync button on the wireless extender

Once the host is properly configured, press and hold the reset button on the wireless extender until the LED illuminates. After approximately one minute, the unit will be sync'd to the host. Once the connection has been established, the 'Module Address' fields in the host web interface will be populated with 4-byte addresses.

If you are experiencing issues syncing the device, make sure that the wireless extender and the host are within 500 feet (longer if in line-of-sight) of each other. If both units are in range of each other and you are still experiencing difficulties, contact DPS technical support (559-454-1600).

5.4 LED

LED	Status	Description
Sync	Red	Sync command received (only illuminated while the sync button is pressed).

Wireless Extender LED Descriptions

LED	Status	Description
Power	Solid Green	Unit is powered.
	Off	No voltage or +12V and GND leads reversed.
Link	Blinking Red	Wireless radio activated.
Rx	Flashing Green	Unit is receiving data from host NetGuardian.
	Off	No data is currently being received.
Tx	Flashing Green	Unit is transmitting data to host NetGuardian.
	Off	No data is currently being transmitted.

Wireless Receiver LED Descriptions

6 How to configure on the NetGuardian G5 Web Interface

For configuration instructions, refer to the NetGuardian 832A / 864A G5 Web Manual.

7 Technical Support

DPS Telecom products are backed by our courteous, friendly Technical Support representatives, who will give you the best in fast and accurate customer service. To help us help you better, please take the following steps before calling Technical Support:

1. Check the DPS Telecom website.

You will find answers to many common questions on the DPS Telecom website, at <http://www.dpstele.com/support/>. Look here first for a fast solution to your problem.

2. Prepare relevant information.

Having important information about your DPS Telecom product in hand when you call will greatly reduce the time it takes to answer your questions. If you do not have all of the information when you call, our Technical Support representatives can assist you in gathering it. Please write the information down for easy access. Please have your user manual and hardware serial number ready.

3. Have access to troubled equipment.

Please be at or near your equipment when you call DPS Telecom Technical Support. This will help us solve your problem more efficiently.

4. Call during Customer Support hours.

Customer support hours are Monday through Friday, from 7 A.M. to 6 P.M., Pacific time. The DPS Telecom Technical Support phone number is **(559) 454-1600**.

Emergency Assistance: *Emergency assistance is available 24 hours a day, 7 days a week. For emergency assistance after hours, allow the phone to ring until it is answered with a paging message. You will be asked to enter your phone number. An on-call technical support representative will return your call as soon as possible.*

8 End User License Agreement

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This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to choice of law principles and excluding the provisions of the UN Convention on Contracts for the International Sale of Goods. Any dispute arising out of the Agreement shall be commenced and maintained only in Fresno County, California. In the event suit is brought or an attorney is retained by any party to this Agreement to seek interpretation or construction of any term or provision of this Agreement, to enforce the terms of this Agreement, to collect any money due, or to obtain any money damages or equitable relief for breach, the prevailing party shall be entitled to recover, in addition to any other available remedy, reimbursement for reasonable attorneys' fees, court costs, costs of investigation, and other related expenses.

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DPS Telecom warrants, to the original purchaser only, that its products a) substantially conform to DPS' published specifications and b) are substantially free from defects in material and workmanship. This warranty expires two years from the date of product delivery with respect to hardware and ninety days from the date of product delivery with respect to software. If the purchaser discovers within these periods a failure of the product to substantially conform to the specifications or that the product is not substantially free from defects in material and workmanship, the purchaser must promptly notify DPS. Within reasonable time after notification, DPS will endeavor to correct any substantial non-conformance with the specifications or substantial defects in material and workmanship, with new or used replacement parts. All warranty service will be performed at the company's office in Fresno, California, at no charge to the purchaser, other than the cost of shipping to and from DPS, which shall be the responsibility of the purchaser. If DPS is unable to repair the product to conform to the warranty, DPS will provide at its option one of the following: a replacement product or a refund of the purchase price for the non-conforming product. These remedies are the purchaser's only remedies for breach of warranty. Prior to initial use the purchaser shall have determined the suitability of the product for its intended use. DPS does not warrant a) any product, components or parts not manufactured by DPS, b) defects caused by the purchaser's failure to provide a suitable installation environment for the product, c) damage caused by use of the product for purposes other than those for which it was designed, d) damage caused by disasters such as fire, flood, wind or lightning unless and to the extent that the product specification provides for resistance to a defined disaster, e) damage caused by unauthorized attachments or modifications, f) damage during shipment from the purchaser to DPS, or g) any abuse or misuse by the purchaser.

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In no event will DPS be liable for any special, incidental, or consequential damages based on breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Damages that DPS will not be responsible for include but are not limited to, loss of profits; loss of savings or revenue; loss of use of the product or any associated equipment; cost of capital; cost of any substitute equipment, facilities or services; downtime; claims of third parties including customers; and injury to property.

The purchaser shall fill out the requested information on the Product Warranty Card and mail the card to DPS. This card provides information that helps DPS make product improvements and develop new products.

For an additional fee DPS may, at its option, make available by written agreement only an extended warranty providing an additional period of time for the applicability of the standard warranty.

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If a purchaser believes that a product is not operating in substantial conformance with DPS' published specifications or there appear to be defects in material and workmanship, the purchaser should contact our technical support representatives. If the problem cannot be corrected over the telephone and the product and problem are covered by the warranty, the technical support representative will authorize the return of the product for service and provide shipping information. If the product is out of warranty, repair charges will be quoted. All non-warranty repairs receive a 90-day warranty.

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Learn how to make your current alarm monitoring equipment compatible with any SNMP manager — without losing time, money or functionality. [Download White Paper](#)

Turbocharge Your NetGuardian With SNMP v2c
The new NetGuardian 4.0 firmware adds SNMP v2c support, robust message delivery via SNMP INFORM command, customizable alarm severity levels and alarm point grouping, plus a whole lot more. Get the full details on everything that's new and how you can upgrade to NetGuardian 4.0. [Read Full Story](#)

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