P R O   C O N T R O L

Pro.rfz
WIRELESS RANGE EXTENDER
Quick Reference Guide

Safety Suggestions

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.
Retain Instructions. Keep the safety and operating instructions for future reference.
Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.
Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.
Power Sources. Use only power sources of the type described in the operating instructions, or as marked on the unit.
Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.
Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.
Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.
Damage Requiring Service. The unit should be serviced by qualified service personnel when:
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Service & Support

If you are encountering any problems or have a question about your Pro Control product, please contact Pro Control Technical Support for assistance.

Pro Control provides technical support by telephone, fax or e-mail. For the highest quality service, please have the following information ready, or provide it in your fax or e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

If you are having a problem with software, please note what version you have installed, the operating system on your PC, a description of the problem, and any troubleshooting you have already tried. If you are calling about a software or programming question or problem, please be at you computer when you place your call. This will considerably speed up the troubleshooting process.
Please do not return products to Pro Control without return authorization.

Contacting Pro Control

Pro Control is a division of Remote Technologies Inc. For information on how to become a trained and authorized Pro Control Dealer, access to the Pro Control Studio programming software, product information and more, please visit our web site at: **www.procontrol.com**

For general information, you can contact Pro Control at:

Pro Control
5775 12th Ave. E Suite 180
Shakopee, MN 55379
Tel. (952) 224-5024
Fax (952) 253-3131

Sales
952-224-5010
Email: info@procontrol.com

Customer Service
952-224-5020
Email: service@procontrol.com

Technical Support
952-224-5024
Email: support@procontrol.com

Limited Warranty

Pro Control warrants its products for a period of one (1) year (90 days only for included battery packs); or for a period of time compliant with local laws when applicable from the date of purchase from Pro Control or an authorized Pro Control distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required. Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty: Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.
2. This device must accept any interference received including interference that may cause undesired operation.

N27917

Contains: FCC ID: MMURTI1300

Contains: IC (Canada): 3166A-RTI1300

Extend the 2-way link between the ProLink.z processor and Pro24.z remote, providing reliable control and feedback such as song meta-data, volume level, lighting control and more. Multiple modules can be added by simply powering them from an electrical outlet. The Pro.rfz units will then create a self-healing wireless network which instantly adapts to changes or problems with the communication path. A detachable wall mount bracket makes for a clean and easy installation.

Key Features
- Extends the 2.4GHz ZigBee® wireless range of the ProLink.z processor.
- Wireless range between ProLink.z and Pro.rfz modules up to 70 feet.
- Supports bi-directional communication, providing control and feedback with the Pro24.z remote.
- Adding Pro.rfz modules creates a self-healing wireless 2.4GHz ZigBee RF network.
- Configured via Pro Control Studio and a micro USB cable.
- Durable plastic enclosure with integrated antenna.
- 6' (2m) Power supply included.
- Easy mounting with a detachable wall bracket.

Product Contents

Contents within the box include the following items:
• One (1) Pro.rfz assembly
• One (1) Mounting bracket and screws (four #6-32 3/4" flathead screw)
• One (1) 5VDC/1A power supply
• One (1) Quick reference guide

Pro.rfz Dimensions

Side View

1.1in (28mm)

Top View

5.0in (127mm)

3.4in (86mm)

Mounting Bracket

4.0in (102mm)
2.25in (57mm)
0.5in (13mm)
2.5in (64mm)

Powering the Pro.rfz

The Pro.rfz has a micro USB port located on the underside of the unit that is used to power the Pro.rfz. In addition, the micro USB port is used to download programming and firmware updates into the Pro.rfz from a PC via a standard USB A to Micro B cable.
NOTE: The Pro.rfz CANNOT be wired/powered directly from a Pro Control processor.
1. Install the appropriate wall outlet plug on to the included power supply (5VDC/1Amp)
2. Connect the power supply micro USB connector to the Pro.rfz USB port.
3. Plug the power supply cable into a wall outlet.
4. The Pro.rfz power cable can be secured by using a zip-tie (not included) looped through the zip-tie clip located on the underside of the Pro.rfz.
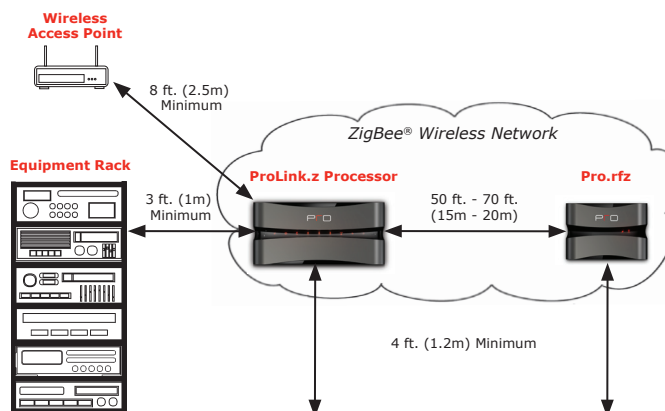

Pro.rfz (Underside)

Power Supply 5VDC/1Amp

Interchangeable Wall Outlet Plug

Zip-Tie Clip
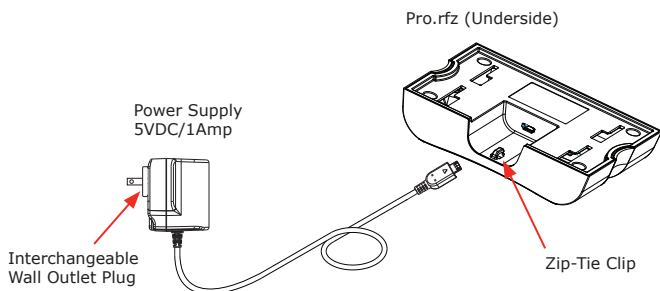
Pro.rfz Location

IMPORTANT NOTE: Please visit the Pro Control website dealer section for additional details on determining the best placement of the Pro.rfz. You will also find information on programming changes that are required to allow the Pro24.z remote to "roam" between the ProLink.z and Pro.rfz.

For best results, ProLink.z processors and Pro.rfz modules should be placed:
• At least 3 feet (1m) from electronic components and at least 8 feet (2.5m) from 2.4GHz wireless RF devices such as WiFi® access points, cordless phone systems, Bluetooth® devices etc.
• At least 4 feet (1.2m) off the floor, away from brick, stone or concrete construction materials.
• Installations may have multiple Pro.rfz modules to extend range further. As long as the Pro.rfz modules are within communication range of each other, a ZigBee wireless network will be established.


Wireless Access Point

8 ft. (2.5m) Minimum

Equipment Rack

ZigBee® Wireless Network

ProLink.z Processor   Pro.rfz

3 ft. (1m) Minimum   50 ft. - 70 ft. (15m - 20m)

4 ft. (1.2m) Minimum

Mounting

The Pro.rfz should be located on a secure, flat surface, or mounted to a wall, shelf, or cabinet using the enclosed mounting bracket.
NOTE: In addition to following the location instructions, when mounting the Pro.rfz, be certain to choose a safe location (e.g. away from electrical junction boxes, wiring, wet locations, etc.)

Mounting Bracket Installation
1. Level and anchor the mounting bracket to desired wall, shelf, or cabinet by screwing appropriate fasteners (four #6-32 3/4" flathead screws included) through the mounting plate fastener holes.
2. Affix the Pro.rfz to the mounting plate by placing the channel locks located on the rear of the unit over the channel lock clips located on the front of the mounting plate. Slide the Pro.rfz down until the channel lock clips lock into place.

Pro.rfz

Mounting Bracket

Channel Lock Clips (x4)   Fastener Holes (x4)
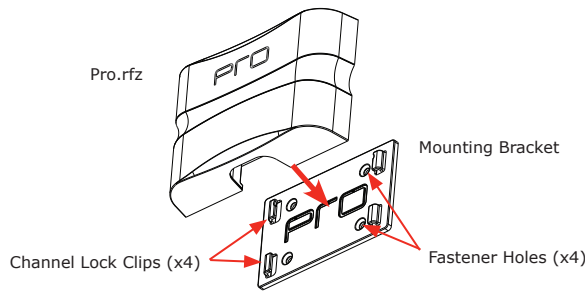
Programming the Pro.rfz

Please verify that you have the most recent firmware and software installed for this and all Pro Control products. Authorized Pro Control dealers can download the latest Pro Control Studio software from the dealer section of www.procontrol.com.
NOTE: Downloading software/firmware updates to the Pro.rfz requires a USB A to Micro B cable (not included).

Updating Pro.rfz Firmware:
Updating the Pro.rfz firmware takes place via the Pro Control Studio software which includes the latest Pro Control product firmware updates. Follow these steps to update the Pro.rfz firmware.
1. Verify that you have the latest version of Pro Control Studio software installed.
2. Open the programming file in Pro Control Studio and add a Pro.rfz to the ProLink.z as an "Expansion Device".
3. Plug in the USB A to Micro B cable to the PC and the Pro.rfz USB port (this also powers the Pro.rfz during the programming update).
4. Click the "Configure Device" button and double click on the Pro.rfz to open the device configuration window.
5. If the "Firmware Version" displays a notification that a newer firmware version is available, click on the "Update Firmware" button to complete the update process.

Programming the Pro.rfz:
Each Pro.rfz that will be used with a ProLink.z processor must be programmed using the Pro Control Studio software.
Follow these steps to program the Pro.rfz.
1. Open the programming file in Pro Control Studio and add a Pro.rfz to the ProLink.z as an "Expansion Device".
2. Plug in the USB A to Micro B cable to the PC and the Pro.rfz USB port (this also powers the Pro.rfz during the programming update).
3. Click the "Configure Device" button and click on the Pro.rfz that needs updating.
4. Click on "Download to Selected Device" to complete the programming process.

PC

Pro.rfz (Underside)

USB A to Micro B Cable
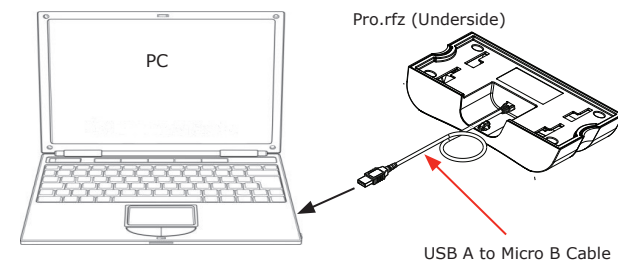
Operation Status

• **Power LED -** The Power LED will illuminate when power is supplied to the Pro.rfz.
• **RF Link LED -** The RF Link LED will illuminate if the Pro.rfz is communicating to a 2.4GHz ZigBee wireless RF network.