



OPERATION, PREVENTIVE MAINTENANCE AND PARTS SUPPORT MANUAL

FOR RESCUE GUARDIAN® P/N: 22-796RG1



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OVERVIEW

Rescue Guardian

The most advanced monitoring and alarm system for technical rescue available. Remotely monitor multiple Rescue Guardians at once on either Android or iOS operating systems. Set your own thresholds and receive notifications of any change in status. Designed by rescue professionals for rescue professionals. The ultimate in rescue monitoring technology. For use with Paratech Rescue Struts or stand-alone, this is an extremely flexible multi-use monitoring device. With its innovative *Back-Pack* mechanism and associated accessories it can be attached to virtually any surface.

It is designed to be used as a stand-alone or connected load and stability monitoring device. High powered amber LED's and a 95dB Audible alarm are integrated into the guardian's robust housing begin alerting users immediately upon detection of an unsafe condition. Additionally, the proprietary Guardian App can activate audible alarms and vibrating alerts on mobile devices. The Wireless Rescue Guardian is exceptionally easy to use and has a vast array of applications.

Monitors: Load, Vibration, Incline, Movement

Wirelessly Transmits: Load change, Vibration, Incline data, movement alarms.

Warning System: 6 high powered amber LEDs, 95dBA auditory alarm, Alarm & change notifications via Bluetooth Black box data logging.

Uses: Structural Collapse (Raker Shoring, Vertical Shoring), Vehicle Stabilization, Trench Rescue, or as a Stand-alone monitoring.

Rescue Guardian Mobile Application

Encrypted wireless connections ensure the security of data. Loaded presets for standard applications are baked into the easy to use interface. Multiple alarm thresholds are full customizable and can easily be adjusted to suit your team's specific operational requirements. This software is designed to be intuitive and easy to learn and easy to use. Future ready for upgrades and updates.

Operational Run Time

The 18650 batteries will allow the Rescue Guardian to monitor continuously for up to 1 week. When monitoring is enabled the Rescue Guardian goes into a low power mode and immediately wakes up should an alarm be triggered. The unit contains a low battery warning that is displayed on screen and also transmitted to the users mobile device. The lithium-ion batteries are rechargeable.

GENERAL PRECAUTIONS

Read me first

- Please read this manual before using the Rescue Guardian to ensure safe and proper usage of the device. Note that images may differ in appearance from the actual product, and that content is subject to change without prior notice.
- Visit www.paratech.com to view the latest information, downloads, and more concerning Rescue Guardian.
- Please note that the Rescue Guardian and associated mobile application have been optimized to work with each other.
- This product includes certain free and open-source software. To see the free and/or open-source licenses, please refer to the licenses section in the Rescue Guardian.
- Rescue Guardian is designed to work in a variety of technical rescue applications.
- Even though the Rescue Guardian was designed and built to withstand harsh conditions, it can be damaged if not properly handled and stored.
- FCC Compliance Statement (Class A): 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.
- CAN ICES-3 (A)/NMB-3(A) (Canada): This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the interference-causing equipment standard entitled: "Digital Apparatus," ICES-003 of the Canadian Department of Communications. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- FCC ID: SQG-PINNACLE1
- IC ID: 3147A-PINNACLE1
- EUROPEAN Compliance CE
- Japan MIC Compliance
- KCC Compliance

Usage Precautions

The following precautions should be taken in order to prevent damage or misuse:

- The recommended continuous ambient operating temperature for the Rescue Guardian ranges from 14°F to 140°F (-10°C to 60°C). The system is designed to operate at this temperature indefinitely. If necessary, however, the system can be operated at higher or lower temperatures for short periods of time.
Note that at temperatures below 32°F (0°C), changes in system operation may occur.
- Do not expose the device to physical stress or impact.
- Always use manufacturer-approved batteries, chargers, accessories, and supplies only.

CAUTION: Changes or modifications to this equipment not expressly approved by the manufacturer will void the warranty and could void the user's authority to operate the equipment.

Safety Precautions

- Only use the Rescue Guardian in a safe manner.
- It is important to understand and follow all standard operating procedures, safety precautions and practices when conducting rescue operations of any kind.
- Rescue Personnel should always wear appropriate personal protective equipment when conducting operations.
- Operating at the scene of a structure collapse is inherently dangerous. Rescuers require skill, experience, training, and adherence to their organization's safety protocols and procedures to minimize risk and work safely and successfully in this environment.
- Rescue personnel should address any safety concerns to their Incident Commander or Safety Officer and follow their superior's instructions while working at the rescue scene.
- Rescuers that have not been appropriately trained or have insufficient experience should not attempt activities that could result in injury to themselves or others.

Electrical Safety

The Rescue Guardian will conduct electricity. Please do not operate the in the vicinity of or during an electrical storm. Avoid contact with any live sources of electrical power. Ensure that the working area is safe, and all sources of power have been disconnected or made safe before conducting rescue operations. Take all precautions necessary to avoid electrocution, which could result in serious injury or death.

Hazardous Atmospheres

The Rescue Guardian is not intrinsically safe but is sealed tight to IP-68 standards. Refrain from operating the Rescue Guardian within hazardous environments deemed not safe for cutting/penetrating metal surfaces, cell phone usage, or other electronic device usage. It is important to follow all situation specific safety protocols and procedures relating to potentially hazardous atmospheres.

Batteries and Battery Chargers - Warnings

The usage of batteries is at your own risk. Before handling, ensure any user has appropriate understanding of the charging, discharging, and installing of lithium-ion batteries. Paratech is not responsible for any damage caused by misuse or mishandling of li-ion batteries and/or chargers.

Make sure to:

- Only use approved Battery Cells recommended specifically for use in the Rescue Guardian. Failure to do so could damage the Rescue Guardian or cause some or all of the Rescue Guardian functions to fail. Each lithium-ion battery cell is equipped with a protection circuit to increase safety and to minimize the potential for risk. Nevertheless, the misuse or mishandling of lithium-ion rechargeable batteries can pose a serious risk of personal injury or property damage.
- Use caution when working with lithium-ion batteries as they are very sensitive to charging characteristics and may explode or burn if mishandled or misused. For this reason, do not store batteries (18650) in or near objects that will produce a static electric charge. Very quick pressure changes can cause 18650 batteries to malfunction.
- Always charge on a fireproof surface.
- Charge only in a recommended smart charger designed for this specific type of lithium-ion battery.
- Do not overcharge or over-discharge batteries.
- Recharge drained batteries as soon as possible.
- Do not short-circuit batteries.
- Do not mix and match old, new, used, and unused batteries.
- Never leave batteries unattended while charging.
- Always take the batteries out of the Rescue Guardian when not in use.
- Do not expose batteries to extreme heat or moisture.
- Do not dispose of batteries in fire. Regulations and laws pertaining to the recycling and disposal of lithium-ion batteries vary from country to country as well as by state and local government. Please consult your local jurisdiction regarding appropriate disposal. Note that many retail stores offer free recycling of rechargeable batteries.

CAUTION: Under no circumstances are UNPROTECTED lithium-ion cells to be used in the Rescue Guardian. These could damage the onboard electronics. Damage caused by unauthorized batteries will void the manufacturer's warranty.

RESCUE GUARDIAN



RESCUE GUARDIAN – Switch Functionality

Activity	Push button 1 (SELECT) Black	Push button 2 (ARM / DISARM) Red
Press Momentarily Button 1 and Button 2	Power ON	
Press and Hold 5 seconds (Button 1 and Button 2 Simultaneous)	Power OFF	
Press and Hold 5 seconds	Turn on/off Display Front Light	Load Alarm SET & RESET*
Press Once Momentarily	When display ON: Toggle Between Load Units and Incline When Display OFF: Wake up Display	No Functionality

Self-Calibration on Start up

Install charged batteries and secure the battery compartment lid of the Rescue Guardian. Place the Rescue Guardian on a Flat, Level surface and depress both Pushbuttons quickly and simultaneously. The Rescue Guardian will enter a “self-calibration” mode, so it is imperative to NOT to move the unit until the setup screen disappears (Fig 1).



Figure 1: Rescue Guardian Setup Screen

Threshold Settings

Definition - The point at which a sensor reading exceeds the minimum or maximum parameters configured by the user, triggering the Alarm Condition.

	Load (Selectable Units)	Incline Angle (Degrees)	Vibration (Hertz)	Vibration (Intensity)
Pounds	Min 100 - Max 2300 "0" Displayed @ < 100 LBS	Min 0.1 – Max 15	1hz – 100hz	1-10
Kilograms	Min 45 - Max 1043			
Newtons	Min 444 - Max 10230			

DISPLAY

The Rescue Guardian utilizes a state-of-the-art 2.7 inch front lit display developed to be readable in any lighting condition. Ultra-Low power consumption and high resolution coupled a wide/symmetrical viewing angle ensure that all critical information is displayed legibly to the user.

BATTERY LID

The Battery Lid of the Rescue Guardian is designed to protect and secure the battery cells in place and seal the battery compartment.

Note:

- Ensure that the gasket around the on the Battery compartment is in good condition, free from debris, and contains no nicks or cuts that could negatively impact the seal.
- The Battery Lid is held in place by two captive 5MM Hex stainless-steel screws and must be securely and hand-tightened into place using a Battery Compartment Tool like the one shown below.

WARNING: DO NOT over-tighten the screw or threads could be damaged.

Battery Lid Tool - 5mm Hex Key (Typical)



CHARGING PROCEDURES

Charging Rescue Guardian Batteries

The Rescue Guardian batteries can be charged using the battery charger provided inside the kit. Please refer to the battery charger instructions for specific details.

INSTALLING THE APPLICATION ON YOUR MOBILE DEVICE

Turn on the device and follow the steps outlined below:

Internet Connection

Ensure your device is well charged (over 50%).

Connect to the Internet.

Go to...Google Play Store / Apple App Store to download, install, and access critical updates of the Rescue Guardian Application. For this first-time configuration, an internet connection is required. Make sure to use a Wi-Fi network that has a reliable internet connection.

Please use the following steps to connect to a Wi-Fi network:

1. Open Settings by tapping on the gear icon (fig 2).
2. Tap "Connections" > Wi-Fi.
3. Turn Wi-Fi on.
4. Tap on a network to connect to it.



Android Apple
Figure 2: Settings Gear Icon

Register / log into Google Play Store or Apple Store Account

Download the Rescue Guardian Application from the Google Play Store, Apple App Store – an account is required.

Either login with your existing Google or Apple Account or tap "create a new account" to create a new account and follow the instructions on the screen. Search for Rescue Guardian and install the application with the following icon.



CONNECTING TO THE RESCUE GUARDIAN

The Rescue Guardian has two operational modes: Stand alone and wirelessly connected. The wireless mode is the preferred method as it allows the operator(s) easy access to collect data and manage the alarm settings and thresholds of the Rescue Guardian.

Step 1

Ensure all batteries and the mobile device are charged. See CHARGING PROCEDURES for detailed instructions.

Step 2

Once the batteries are fully charged, take the provided Battery Compartment Tool 5mm hex key tool and remove the Battery Lid.

Step 3

Insert two (2) fully charged batteries on the yellow ribbon in the battery compartment, while carefully observing polarity by lining up the button top with the positive terminal in the battery compartment. The batteries should be inserted on top of the yellow ribbon to allow for easy battery removal. Tuck the excess ribbon back in between the batteries to avoid interference with the sealing gasket of the battery lid.

Step 4

Re-install battery lid using the battery compartment tool.

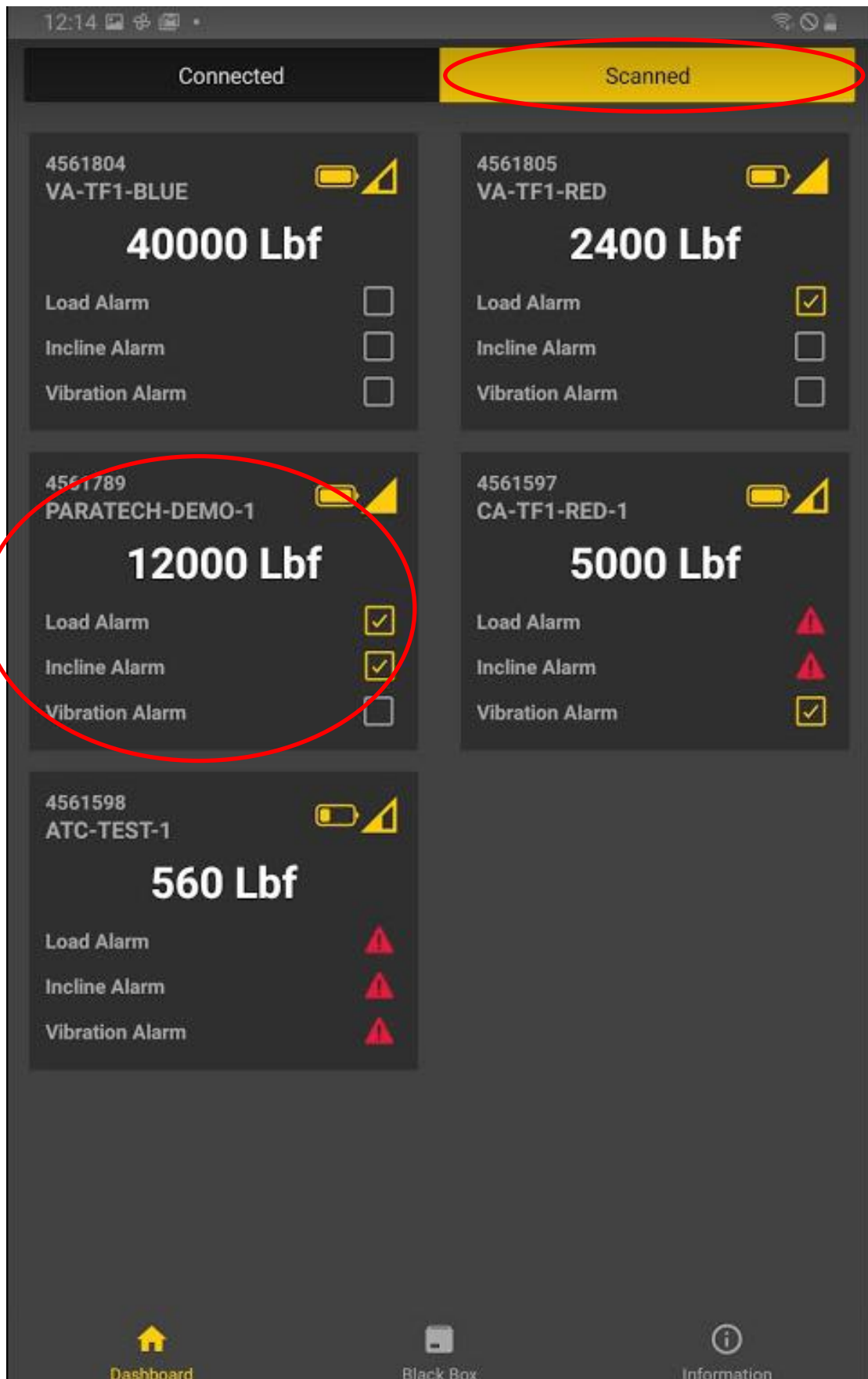
CAUTION: DO NOT over-tighten the screw as it could cause damage to the threads.

Step 5

Press and hold both buttons on the front of the RESCUE GUARDIAN for 3 seconds until the display lights up and the multifunction LED turns blue, indicating the RESCUE GUARDIAN is initializing and powering up. The RESCUE GUARDIAN can take up to 20 seconds to complete the initial boot sequence.

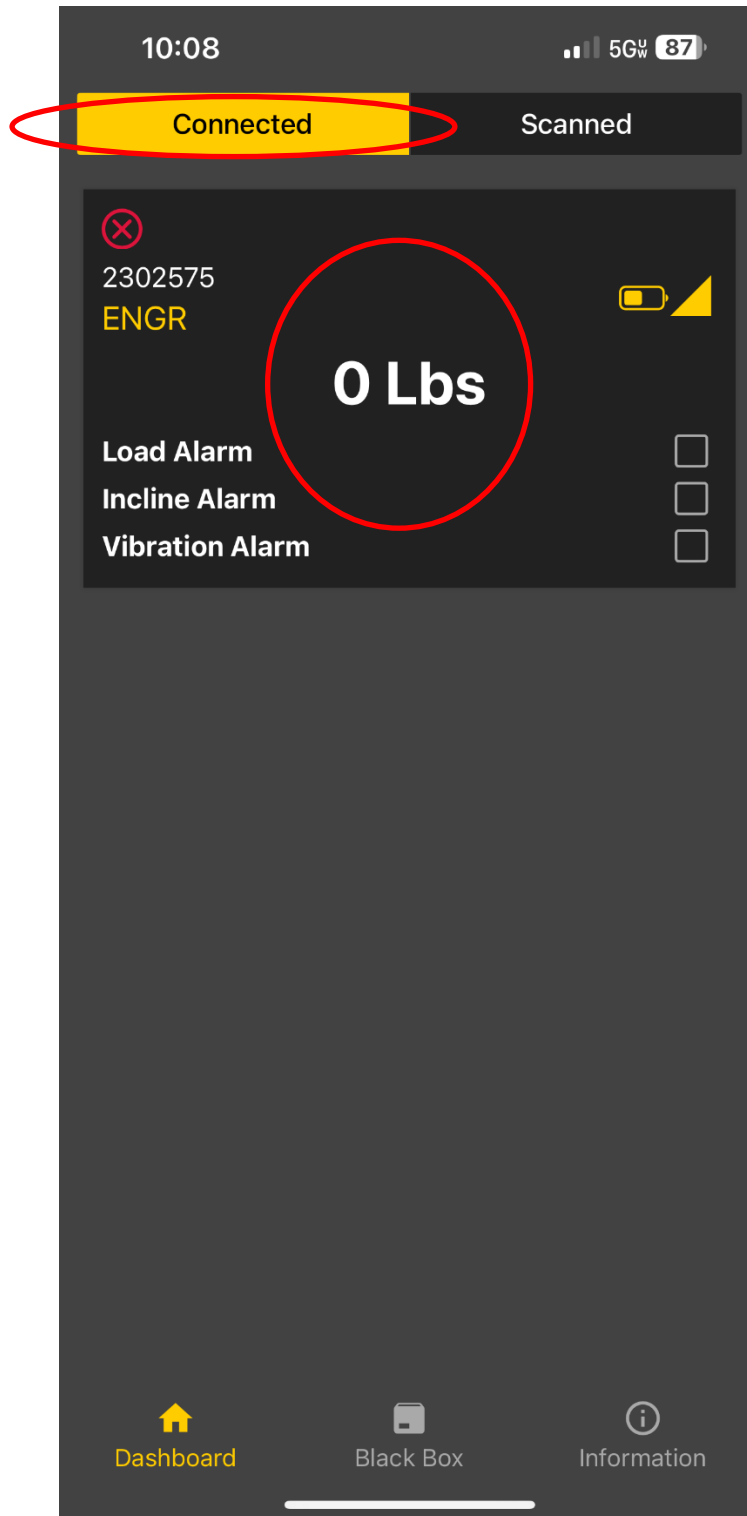
Step 6

Open the Rescue Guardian application on a mobile device by clicking on the Paratech icon. The main dashboard will open in the *Scanned* screen. It will show all powered up Rescue Guardian units within range and available for pairing. Click on the tile that contains the serial number of Rescue Guardian you wish to pair.



Step 7

Once you select a Rescue Guardian to monitor it will show in the *connected* screen



To Disconnect a Rescue Guardian Unit – Press the **Red X** at the corner of the active tile.

Live Data Screen Overview

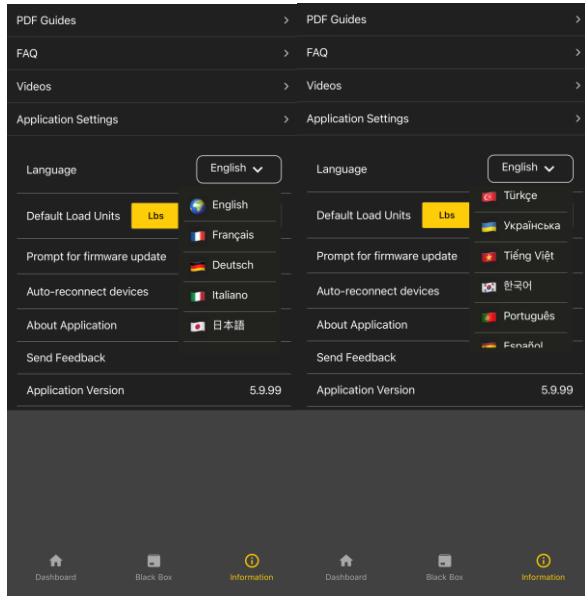
This screen summarizes the data the Rescue Guardian is collecting and is the place where alarm thresholds are set and activated or deactivated.



Application Settings

Languages

Select the language from the drop down menu



Default Load units

Select the Standard unit of measure across your application

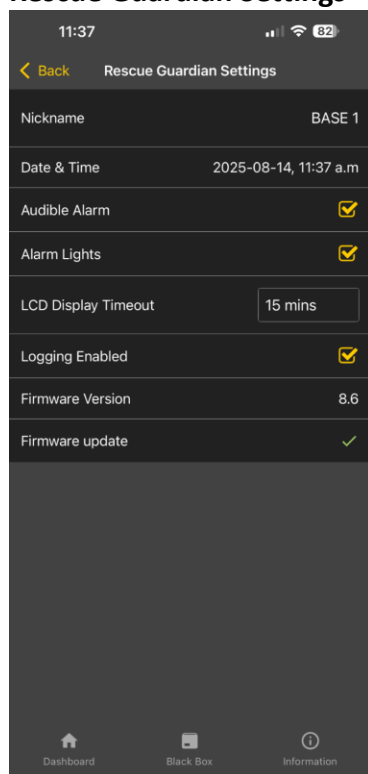
Lbs = **Pounds**
Kg = **Kilograms**
N = **Newtons**

Note: changing this application setting does not change the unit displayed on the Rescue Guardian Screen. To change this, press the select button on the Rescue Guardian to cycle through the units on the display

Auto re-connect devices

Enable this setting so that any previously connected Rescue Guardian will auto reconnect incase of a disconnection due to moving out of range or restarting the device

Rescue Guardian Settings



Nickname – Users can modify the name of individual Rescue Guardian Units. This name will be displayed on the Live Data Screen above the unit serial number.

Automatic Time and Date – This setting will default to Automatic.

***Audible Alarm** – De-Selecting will turn off the Audible Alarm on the Rescue Guardian.

***Alarm Lights** - De-Selecting will turn off the Alarm Warning Lights on the Rescue Guardian.

LCD Display Time out – This setting is used to conserve battery power. You can set to time out or dim the front light of the display on the Rescue Guardian unit. Note: pressing one of the buttons on the Rescue Guardian brings the unit out of sleep and turns on the front light.

Firmware Version – This indicates the Firmware revision flashed onto a particular Rescue Guardian.

***Logging Enabled** – This turns on and off the Data Logging feature.

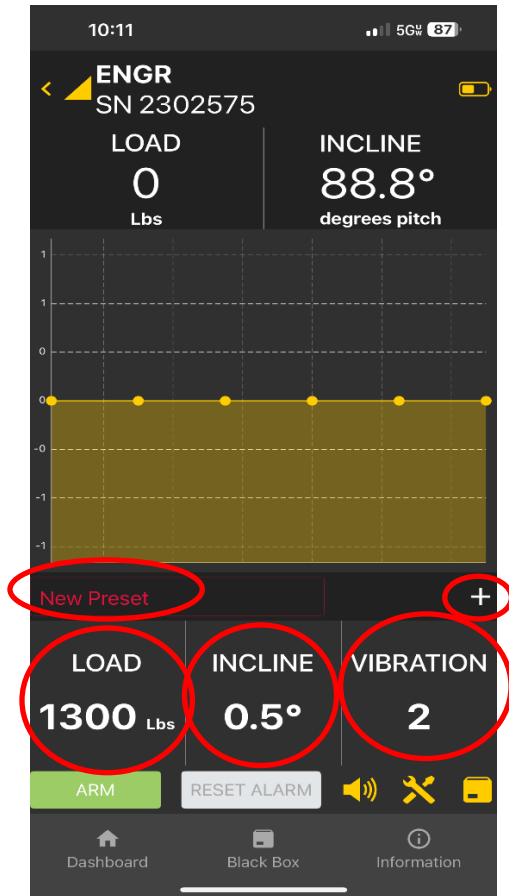
***NOTE-** These features are made available to users so they can disable lights, siren and data logging during training or testing. **Great Caution should be used when modifying these settings**

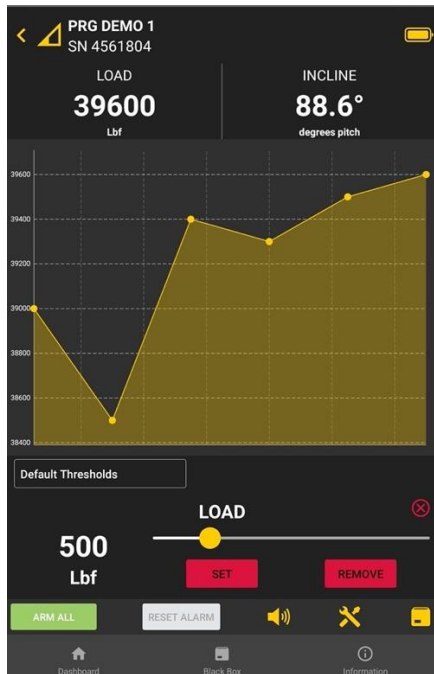
Setting Alarm Thresholds

There are three ways to choose Alarm Threshold Limits on the Rescue Guardian.

1. Preset Default Thresholds – These out of the box settings will be updated from time to time for best practices out in the field.
2. Set Thresholds Manually – Load, Incline, Vibration for application specific needs.
3. Customized - Create your own presets for training / instructional purposes.

Active Buttons for these features are circled below in Red press and hold

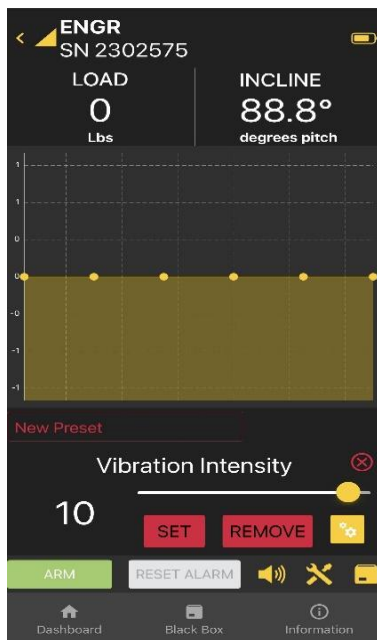




LOAD SET/REMOVE



INCLINE SET/REMOVE



VIBRATION - INTENSITYSET/REMOVE

Alarms are set by moving the slider (yellow dot) to the desired level and pressing “Set”. If you wish to remove the Alarm press “Remove”. Pressing < Back will take to the Live Screen.

A vibration setting can be accessed and set. It is considered to be an advanced setting to be used by a qualified Structural Engineer only.

What is Vibration Intensity

Vibration Intensity (Vi) is a 1–10 number that summarizes the **total vibration energy** the device is feeling (0–100 Hz band). It's **log-scaled**, so small increases in Vi mean **multiplicative** increases in shaking energy.

What the numbers mean

- **Vi 1–3:** Background / light human activity.
- **Vi 4–6:** Noticeable structural vibration; machinery nearby; shifting rubble; shoring adjustments.
- **Vi 7–8:** Strong, sustained energy—operators should reassess stabilization.
- **Vi 9:** Violent motion; **immediate attention**.
- **Vi 10: Sensor saturation.** Treat as **extreme** shaking.
- **Vi 9–10** corresponds to **very strong to extreme** shaking on the Modified Mercalli intensity scale, i.e., the kind that can dislodge or collapse unstable materials. (Exact equivalence depends on mounting and local structure; see notes below.)

Rule of thumb guidance:

- **Quiet baseline ($Vi \leq 3$):** set **Vi + 3** (typical starting point = 6).
- **Active site (Vi 4–5):** set **Vi + 2** (e.g., 6→8) to avoid nuisance trips but still catch worsening movement.
- **Heavy machinery close / very dynamic ($Vi \geq 6$):** set **Vi + 1** and **shorten your re-arm cycle**.
- **Any time conditions change** (new shores added, loads moved): **Disarm** → **let Vi settle** → **Re-arm** so the baseline reflects the new scenario.

Rule of thumb: **+1 Vi step $\approx$ a sizable jump in energy**, because Vi is logarithmic. Two or three steps is **many times** more energy than the current baseline.

Vibration Intensity (Vi) along with dominant frequency (Hz) is captured every second in the black box data when the device is armed.

Note: Spurious, short-duration high-impact vibrations such as hammering, nail-guns, etc. in the near vicinity of the Rescue Guardian may not trigger the RG Vibration alarm as the vibration alarm is designed to respond to sustained, high energy vibration events (≥ 5 seconds).



Thresholds

	Load (Selectable Units)	Incline Angle (Degrees)	Vibration (Hertz)	Vibration (Intensity)
Pounds	Min 100 - Max 2300 "0" Displayed @ < 100LBS	Min 0.1 – Max 15	1hz – 100hz	1-10
Kilograms	Min 45 - Max 1043			
Newtons	Min 444 - Max 10230			

When the Rescue Guardian is positioned, and the alarm threshold(s) are "Armed" the Rescue Guardian carries out an automatic self-calibration and saves the current physical state as a reference point from which the thresholds activate the Visual, Audible and Mobile alarms.

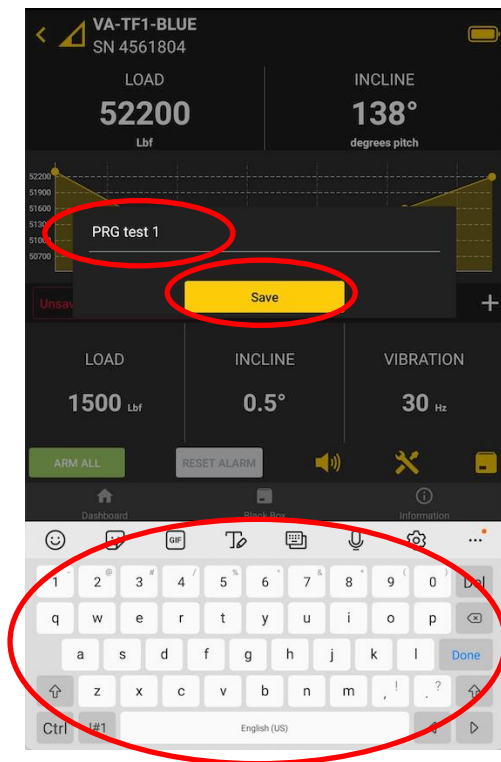
For Example:

Incline - A strut is positioned at 45 degrees, the Alarm threshold set at 2 degrees. The Rescue Guardian is then armed. The alarm will sound if the strut moves to s 43 degrees or 47 degrees of incline.

Presets

Thresholds have been included in the Rescue Guardian Application as a quick go to resource and a starting point for your own customized settings.

To add your own custom preset, select the “+” a dialogue box will open and you will be asked to name and save the preset.

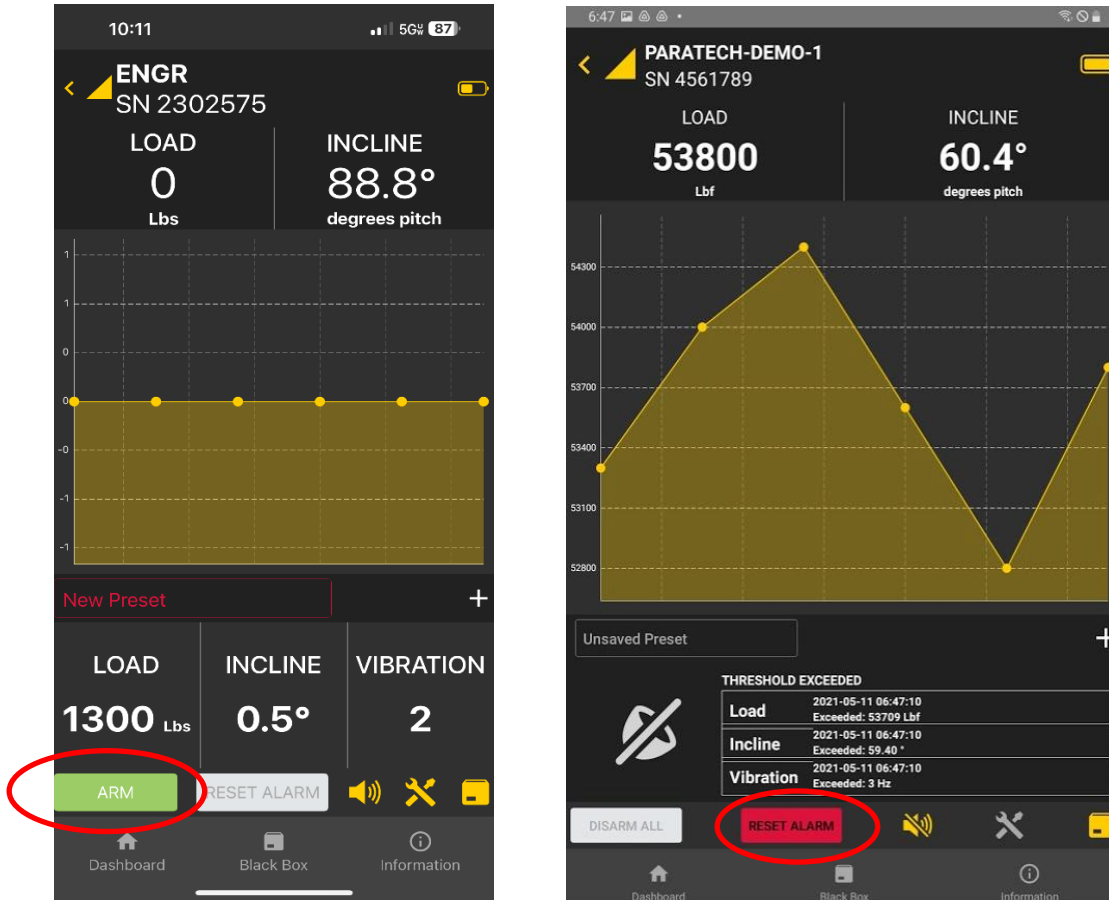


To save the Pre-set; go to the individual sensor settings and move the sliders to the desired levels and press “Set”.

Note: If you wish to **delete** an already programmed threshold setting from a pre-set go to the Pre-set and press “Remove”.

Setting the Master Alarm

Once you have your threshold level set or have selected your pre-set Select “Arm All” on the Live Data Screen to activate.

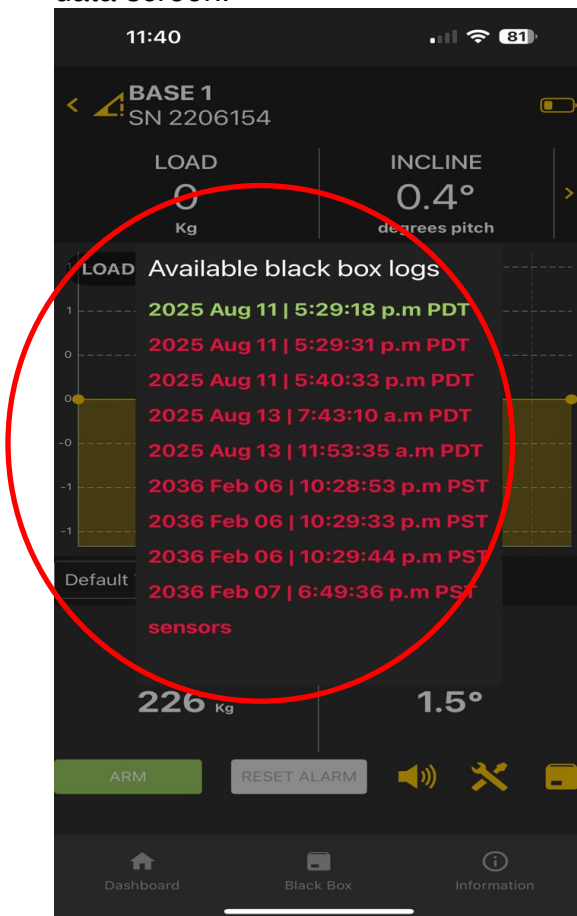


Note: If you want to modify any of the settings you must disarm or reset any alarms before changes will be saved. If an alarm has been triggered and the Rescue Guardian is in an alarm condition it cannot be reset until the alarm is cancelled.

Black Box

The Black Box feature of the Rescue Guardian App monitors live data and associated thresholds. It captures and broadcasts events as they happen and stores them for future analysis or review. Up to 20 Black Box Events can be stored for future reference.

Select the File you wish to review, and the playback will be facilitated on the Black Box data screen.



If you wish to rename, save or share the Black Box data. Files can be emailed or exported as .CSV or other file formats (See list).

BATTERY HANDLING

Rescue Guardian Rechargeable Li-ion Battery with Protection Circuit

The Rescue Guardian uses lithium-ion protected circuit 18650 batteries.

Fully charged Rescue Guardian batteries will typically last one week, depending on settings.

Keep batteries away from fire or other sources of heat above 80° C.

Storage Temperature: -10° C to 40° C

Hot Swapping

Batteries may be replaced one by one while the Rescue Guardian is operating. To do this, remove the Rescue Guardian Battery Lid and begin to replace each battery one at a time with a fully charged replacement. Once complete, make sure to correctly re-install the Rescue Guardian Battery Lid.

ALTERNATE POWER

CR123A Lithium Batteries - Adapter Tubes

The Rescue Guardian will operate using four (4) CR123A lithium batteries as an alternative emergency power source. Paratech has available adapter tubes. Each tube holds two (2) CR123A batteries (fig 3).

CAUTION: When putting the CR123A lithium batteries in the adapter tubes, make sure that the batteries are correctly orientated and observe correct polarity. Make sure that polarity markings on the adapter tube, batteries and Rescue Guardian Battery compartment markings are aligned.

WARNING: DO NOT USE CR123 lithium-ion batteries. Please note that the higher voltage of the lithium-ion cells could damage Rescue Guardian circuitry. Make sure to check the battery type before using the adaptor tubes. Understand the difference between lithium and lithium-ion batteries. Physical cell size is the same, but the chemistry is very different.

BEWARE: Use of lithium-ion batteries will void warranty.



Figure 3: Four CR123A lithium batteries inserted into two adapter tubes.

CARE & STORAGE

Care

- Keep the display free from dirt and fingerprints to avoid the obscuring the readout.
- To clean the screen, use a soft, lint-free microfiber cloth. Never use a paper towel or other paper-based towels as they can leave scratches on the screen.
- Never disassemble the Rescue Guardian, as this is not only dangerous but will also void warranty.
- Use a damp, well wrung out microfiber cloth, with mild soap and water to clean dirt from the Rescue Guardian exterior surface. Do not use solvents, doing so may cause the external surface to deteriorate.

Storage – Rescue Guardian and Batteries

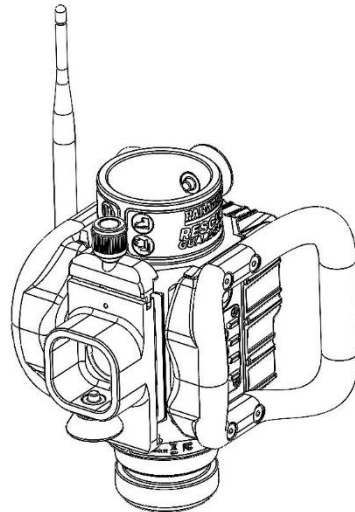
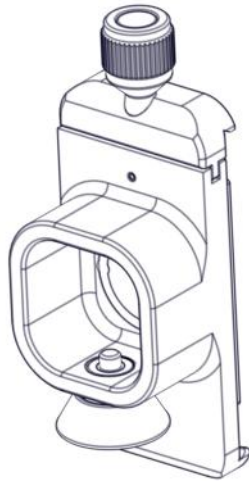
Please avoid using or storing your Rescue Guardian in the following kinds of places, as this may damage the electronics:

- Places with extreme high temperature, high humidity, or rapid changes in humidity or temperature.
- Places with large amounts of sand or dust.
- Places where the Rescue Guardian will be in contact with chemicals.
- Places where strong magnetism is emitted (next to monitors, transformers, magnets, etc.).
- Always store your Rescue Guardian in the provided case or box.
- Always store the Rescue Guardian Rechargeable Li-ion Batteries safely when not in use.
- Be sure to charge the batteries before initial use, as they are not fully charged at the time of dispatch.
- Due to the characteristics of the batteries, use in cold areas will shorten the usage time even if the batteries are sufficiently charged.
- If storing for a long time, charge the batteries for around 30 minutes once every year.
- Do not recharge immediately after charging has been completed.
- Charge in an area with an ambient temperature between 50°F and 104°F (10°C and 40°C). Charging in cold or hot areas may cause the batteries to deteriorate or prevent sufficient charging.

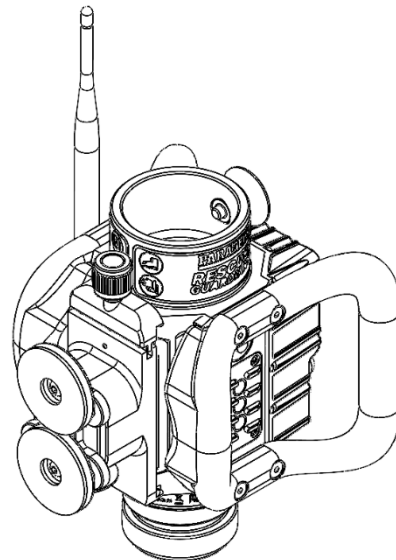
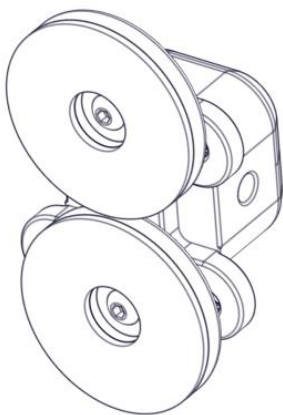
ACCESSORIES

Multiple mounting options are available to use the Rescue Guardian without being attached to a Paratech Rescue Strut.

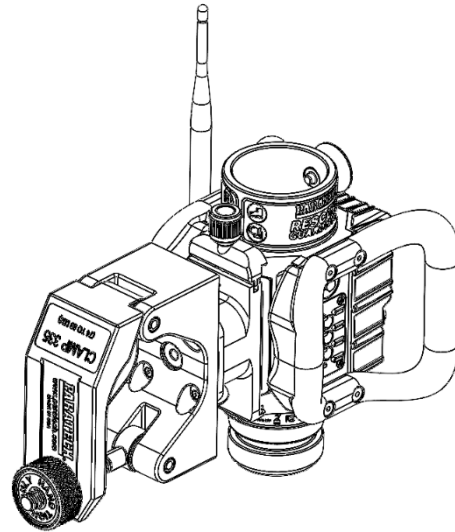
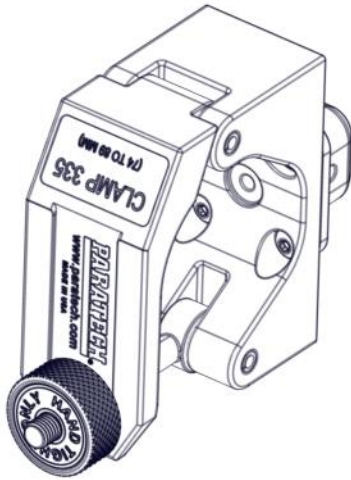
22-796678, Adapter Plate Assembly: Mounts onto the back of the Rescue Guardian over the battery lid as shown below providing a point of attachment for the Magnet Assembly (22-796598), Clamp & Clevis Assembly (22-796599), or Mini-Clamp Assembly (22-796634).



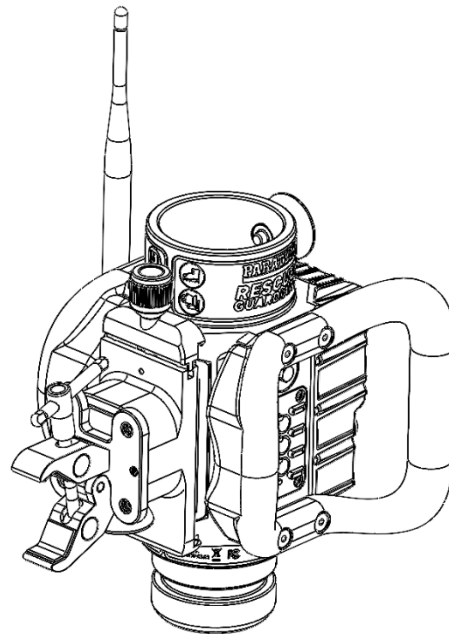
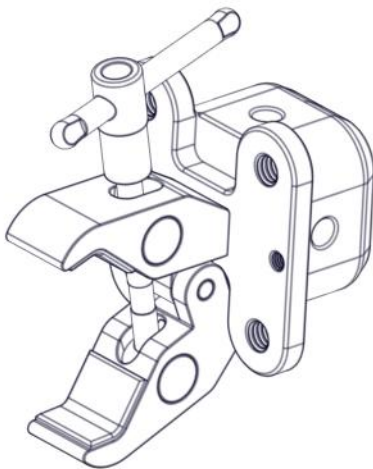
22-796598, Magnet Assembly: Attaches to the Adapter Plate Assembly allowing the Rescue Guardian to be mounted onto any metallic surface such as an I-beam, Nailing Plate (22-796625), automobile, or truck.



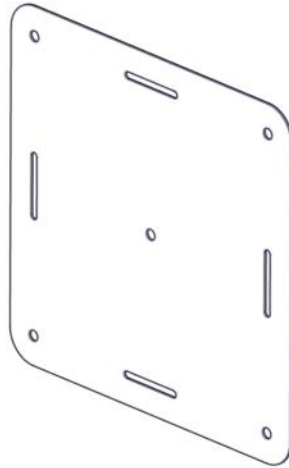
22-796599, Clamp & Clevis Assembly: Attaches to the Adapter Plate Assembly allowing the Rescue Guardian to be mounted to the tube of a Paratech Rescue Strut or other large diameter objects.



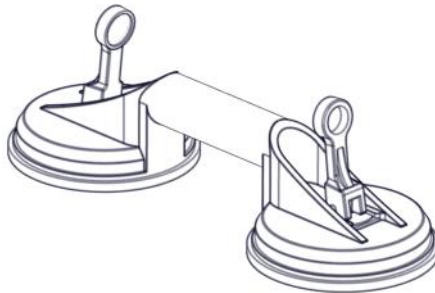
22-796634, Mini Clamp Assembly: Attaches to the Adapter Plate Assembly allowing the Rescue Guardian to be attached to the Suction Cup Assembly (22-796627) or other small diameter objects.



22-796625, Nailing Plate: Attaches to wood or surfaces that can accept a nail or screw allowing the Magnet Assembly or Suction Cup to be attached.



22-796627, Suction Cup: Attaches to smooth surfaces (glass, metal, plastic, etc.) and interfaces with the Mini Clamp Assembly to mount the Rescue Guardian.



Rescue Guardian - Specifications

Feature	Parameters
Load Reading Capacity ++	60,000 lbs / 27215 Kgs / 266,893N
Load Units (selectable)	Pounds / Newtons / Kilograms
Safety Factor	4 to 1
Weight	6.65Lbs
Height	8.75"
Width	7.0"
Depth	5.75"
Display	2.7"
Readability	Symmetrical View Angle
Display Lighting	Front LED Lighting
Battery Type	2x NCR18650B with protection circuit, 3400mAh x2
Operational Life	Up to 1 week continuous, (Low Power Mode)
Battery Operation	Hot Swappable
Operating Temperature Range	-10 to +50 °C
Wireless Frequency	BLE (Bluetooth 5.1), 2.4 GHz
BLE Range	BLE (Bluetooth 5) line of sight *
Pairing	Passcode/ NFC
Wireless Alarm Notification	Mobile application notifications via BLE
Push Button Actuation Force	3-5lbs momentary
Push Button Mechanical Life	500,000 cycles
Switch Boots	Silicone Rubber
Real Time Clock Battery Life	2 years minimum
Measurement Range Incline	360 Degrees Pitch & Roll
Incline accuracy	0.1degrees
Vibration Range	1-100hz
Vibration Accuracy	0.1Hz
Load Resolution	1lbs/1kg/10N
Load Accuracy	±0.1% full scale
Materials	7075 / 6061 Aluminum, Vydye
Water / Dust Proof Rating	IP68
Audible Alarm	95 dBA @ 10cm
Visual Alarm	6x Amber LED Strobe, 2x RGB
Application compatibility	Android, IOS, Bluetooth 4.2 or newer
Antenna Connections	SMA
(++)loads in excess of the stated maximums will be read and recorded but with a lesser degree of accuracy. "0" Displayed @ < 100 LBS.	
* external antenna TBA	

SERVICE

Contact your local Paratech Dealer

Or call us

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RESCUE GUARDIAN LIMITED WARRANTY

Each **RESCUE GUARDIAN** or component thereof, manufactured by Paratech Incorporated, has been thoroughly inspected and properly adjusted before shipment to insure the highest quality and the greatest possible reliability.

Paratech Incorporated (hereinafter referred to as "Seller") hereby warrants the **RESCUE GUARDIAN** or component thereof to the original retail buyer only against defects in material and workmanship under normal use and service for a period of five years from the date of purchase. This warranty shall constitute the sole warranty of the Seller with respect to the **RESCUE GUARDIAN** or component thereof. **THE SELLER HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The Seller neither assumes nor authorizes any other person to assume for it any other obligations or liabilities in connection with the sale or use of this product.

Should there be any defects in the material or workmanship of the **RESCUE GUARDIAN**, buyer should return the defective product to the factory for inspection with shipping prepaid within five years from the date of purchase. If inspection shows that the **RESCUE GUARDIAN** or a component thereof is defective and that such defects were not caused by negligence, misuse, accident or unauthorized service, the product sold hereunder will be repaired or replaced at the option of the Seller, without charge, FOB at the factory, Frankfort, Illinois.

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