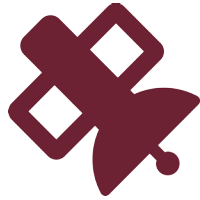


PWA - PORTABLE WORKSITE ALARM CONNECTED GATEWAY

User Information



Portable Worksite Alarm (PWA) Gateway is a wireless bridge that manages the data signaling between Grace Lone Worker safety devices and the Grace Connected Safety™ Cloud Monitoring Portal. PWA contains a wireless signaling link to a Worker's safety Pendant such as WorkForce®, SuperCELL®, and TPASS® and contains a satellite and/or cellular connection for data signaling with the Cloud.

IMPORTANT: Please Read All User Information Before Use

- Always test Portable Worksite Alarm (PWA) prior to use in accordance with the user information.
- PWA requires a cellular and/or satellite connection plus an active Grace Connected Safety™ account. Set up your account at www.GraceConnectedSafety.com.
- Portable Worksite Alarm is powered by an internal, rechargeable battery.

Fully CHARGE PWA Before First Use

- Only charge PWA at an ambient temperature range of -4°F to 122°F (-20°C to 50°C)

Grace Connected Safety™ System Overview

PWA is part of the **Grace Connected Safety™** system which includes worker-worn **Pendants**, fixed or mobile **Gateways**, and **Grace Cloud Connect™** Portal dashboard.



2-Way Signaling



2-Way Signaling



Grace Cloud Connect™

Cloud-based Monitoring and Alerting portal

- Send worker safety alerts by SMS text message and/or email.
- Configurable for customer specific standard operating procedures (SOP), customer-defined Worker Check-in schedule.
- Accessible from any device (PC, tablet, smartphone) having an internet connection and web browser.
- Locate and verify worker safety status, send and receive user-defined messages.
- Event data-logging and Pendant location mapping supported.

Mobile Gateway

Portable Worksite Alarm (PWA) Connected Gateway Features

- Connects to the **Grace Cloud Connect™** Portal dashboard using satellite and/or cellular connection; incorporates 128-bit AES security.
- LED status indicators provide for operational verification and system integrity
- Bright LED strobe lights and loud alarm sirens.
- Powered by an internal, rechargeable battery.
- Other Grace Gateways include Grace Mobile Gateway, Grace Fixed Gateway, and MS3000X.

Pendants


Grace Pendants are designed to operate with PWA and other Grace Gateways WorkForce® WF1 and WF2, SuperCELL® SC500, TPASS®3

- Worker-worn safety Pendant with 2-way RF signaling to Gateway, incorporates motion-sensing, fall-detection, and various signaling modes depending on model.
- Audible, visual, and optional vibrating alerts.
- WorkForce® WF2, SuperCELL® SC500 include alphanumeric graphic display.
- Rechargeable lithium battery powered, **intrinsically-safe** models available.
- Interoperable with legacy Grace RadioH products and systems.

SALTi™

- SALTi™ is the System Access Loop Test indicator, a feature that verifies the connection integrity of a user's Pendant and the cloud Monitoring and Alerting Portal, as part of the Grace Industries cloud-based Grace Connected Safety system. This feature provides Pendant users with a piece-of-mind and confidence in the system.

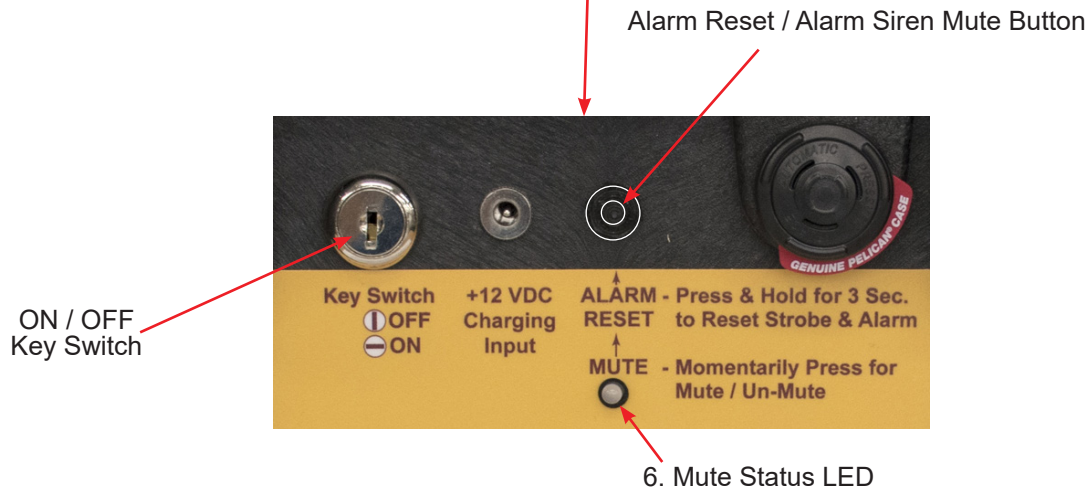
PWA Portable Worksite Alarm Connected Gateway Specifications

Model	PWA
Enclosure	Rugged, impact and weather resistant polymer
Size	16" High, 16 1/2" Wide, 8 3/4" Deep (40.6 x 41.9 x 22.2 cm)
Weight	12 lb. (5.4 kg)
Power	Internal 12 Volt rechargeable lead-acid battery. Supplied with 120VAC power adapter. 12VDC power adapters available. International power adapters available.
Operating Time	Approximately 24 hours on full charge. 1 hour minimum at low battery alert.
Active Pendants Monitoring	Alarm Detection (Gateway Alarm Flag): up to 500 Pendants. Pendant Tracking, SALTi operation: up to 40
SALTi™	System Access Loop Test indicator, a feature that verifies the connection integrity of a user's Pendant and the cloud Monitoring and Alerting Portal
Low Battery Alert	Low battery Alert is transmitted to display-equipped Pendants and to Grace Cloud Connect™ Portal
Battery Charge Time	6 to 10 hours
Battery Life	3 to 5 years
Alarm Display	Dual sirens and bright flashing strobe lights activate when Alarm Signals are received from Pendants
Alarm Siren Audio Output	120 dBA at 1 meter
Activation Controls	ON/OFF Key Switch provides for enhanced security
Radio Frequency	902-928 MHz license-free FHSS North America ISM, other frequencies/countries supported
Pendant Evacuation (EVAC)	Push-button EVAC activation sends Evacuation Signal to all connected Pendants within range. To EVAC or Clear an EVAC - Press and Hold push-button for 3 seconds
EVAC Indicator Light	EVAC Active: LIGHT Flashing EVAC Off: LIGHT Off
Compatibility	Grace Telemetry Systems using RadioH platform including - WorkForce®, SuperCell®, TPASS®, Micro TPASS® Repeater, T3 Repeater, and others.
Environment	Storage Temperature: -40°F to 158°F (-40°C to 70°C) Operating Temperature: -22°F to 140°F (-30°C to 60°C) Charging Temperature: -4°F to 122°F (-20°C to 50°C)
Radio Certifications	FCC ID: J5XMXHEM; Q639603N; MCQ-XB3M1 - Meets FCC Part 15 IC: 5916A-MXHEM; 4629A-9603N; 1846A-XB3M1 - Complies with Canadian ICES-003 Australia / New Zealand: Compliant to ACMA AS/NZS CISPR22:2006, Class A Digital Apparatus AS/NZS 4268:2017 for Intentional Radiators EMC93142C-ACMA EMC93142C-AS/NZS 4268 

WARNING:

PWA Alarm Sirens are EXTREMELY LOUD.
Use of hearing protection is recommended.
PWA has a siren Mute Button and Mute LED indicator.

PWA COMPONENTS

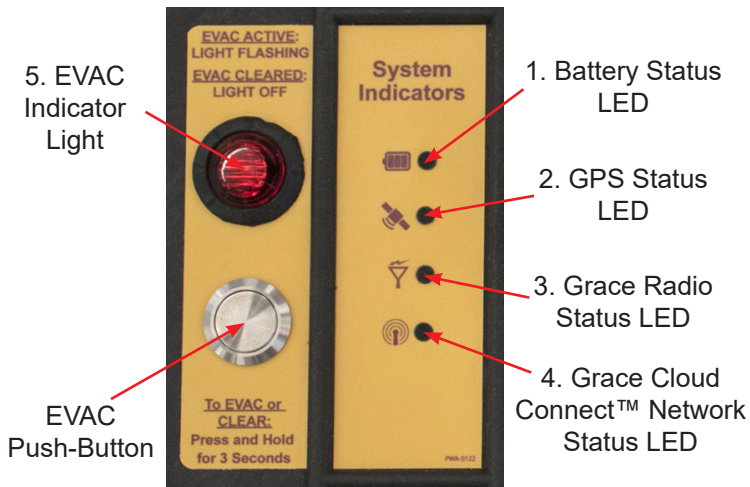


WARNING:

**PWA Alarm Sirens are EXTREMELY LOUD.
Use of hearing protection is recommended.**

PWA has a siren Mute Button and Mute LED indicator.

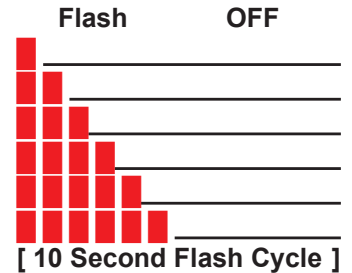
PWA Status LED Indicators



Grace Cloud Connect™ LED Fault Code Flash Pattern

Gateway Fault Codes are indicated by the Grace Cloud Connect™ LED with a distinct 10-second flash cycle. Every 10 seconds, the LED flashes from 1 - 6 times as defined below. The flash cycle repeats. If Fault Codes persist and do not self-clear, consult factory for assistance.

Cellular Modem
Satellite Modem
Grace Radio
GPS
Configuration Storage
Data Bus Fault



1. Battery Status LED

	Solid Green:	Charging
	Solid Red:	PWA is Powered ON and Activated.
	Flashing Red:	Initializing. When PWA is Powered ON (or when Alarm is Reset), there is a 30 second initialization period before PWA is operational

2. GPS Status LED

	Solid Green:	GPS location detected and locked
	Solid Amber:	Weak GPS location signal detected and locked
	Flashing Red:	GPS signal detected, attempting location lock
	Solid Red:	NO GPS signal detected

3. Grace Radio Status LED - PWA to Pendant Transmit/Receive

	Solid Green:	Secured radio connection
	Flashing Green:	PWA receiving RF signal from Pendant
	Flashing Red:	PWA transmitting RF signal to Pendant
	Solid Red:	No communication between PWA and Pendant

4. Grace Cloud Connect™ Network Status LED

	Solid Green:	PWA connected to Grace Cloud Connect™ Network
	Solid Green with: Red Flash	Weak PWA connection to Grace Cloud Connect™ Network; potential for signaling delays
	Solid Red:	No PWA connection to Grace Cloud Connect™ Network
	Red Flash Cycle:	Gateway fault detected. See diagram above for list of fault code flash patterns

5. EVAC Indicator Light

	Light Flashing:	EVAC Active, transmitting to Pendants
	Light Off:	EVAC OFF

6. Mute Status LED - See Page 4

	Solid Red:	PWA Alarm Sirens are MUTED
	Red LED OFF:	Sirens are ENABLED

PWA Operating Instructions

STEP 1: Grace Cloud Connect™ Portal Access:

- Access the website link Grace Industries has provided (by email) to your Master Administrator.
- Login using the provided credentials.
- Continue configuration and setup of Pendant Monitoring and Alerting.

STEP 2: PWA Location Setup:

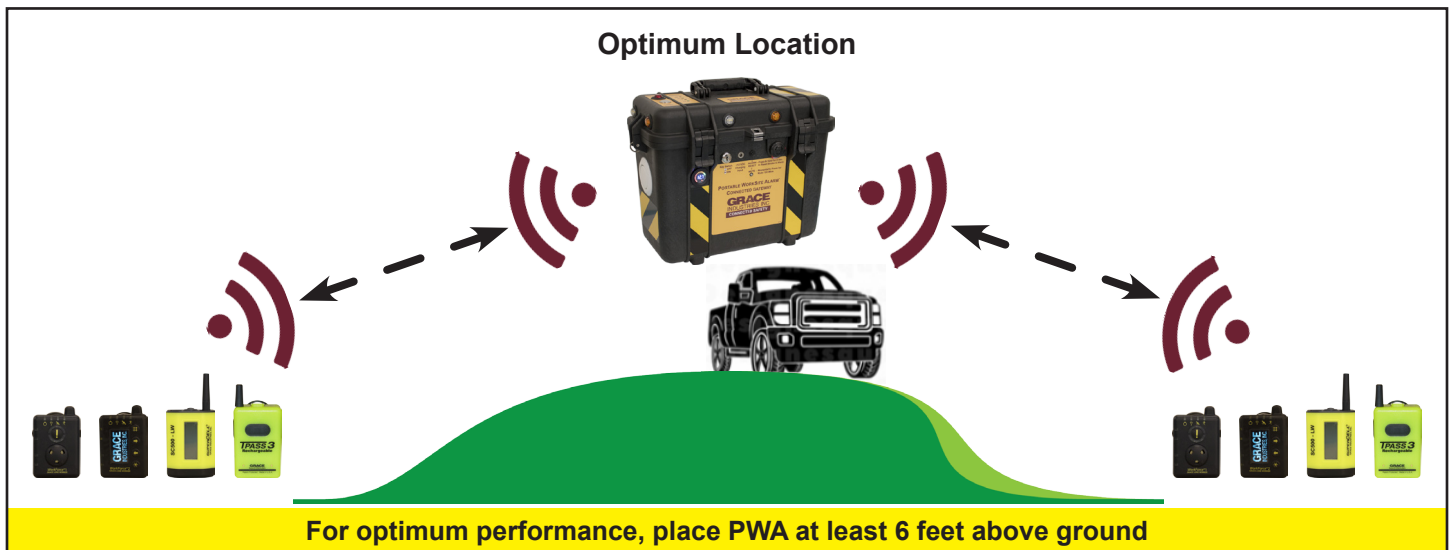
Satellite Connectivity

- For optimal performance using the satellite connection, place the PWA in an upright position with the top label surface facing an unobstructed view of the open sky.
- Tall urban structures have the potential to obstruct the connection of PWA to satellites. PWA should always be located outside and, when possible, away from shadows cast by tall structures.

Cellular Connectivity

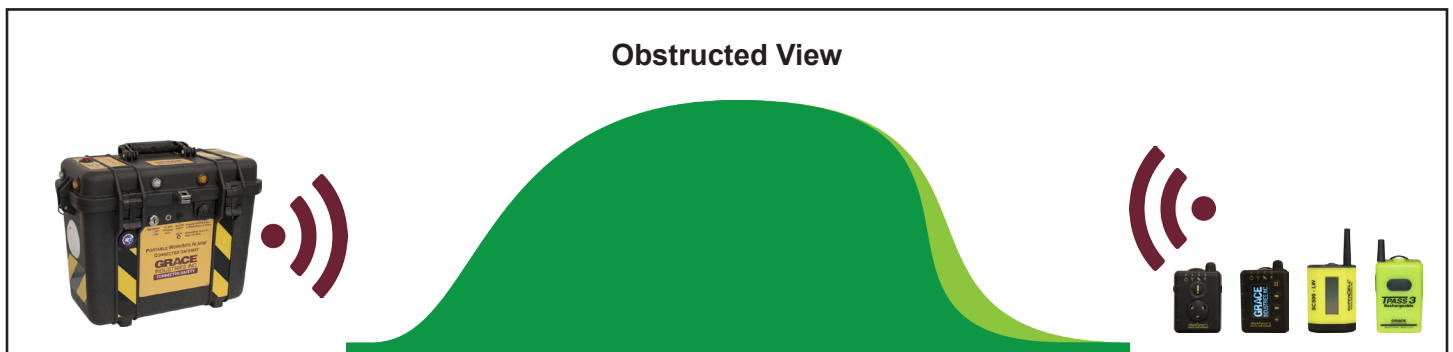
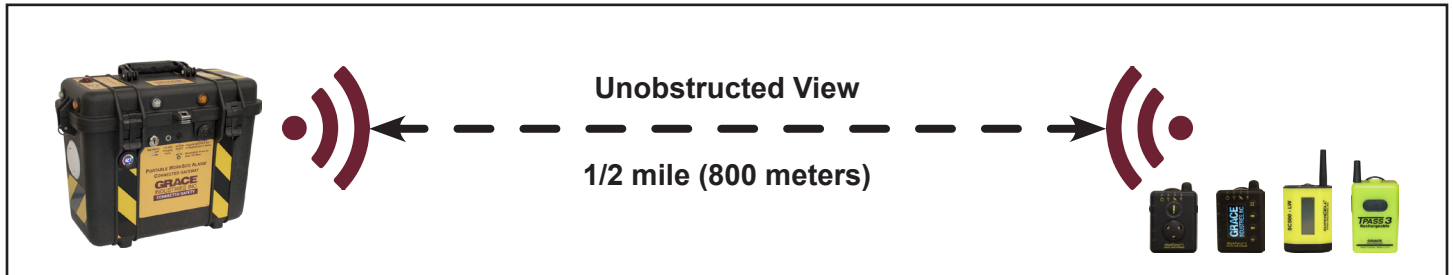
- PWA models include cellular connectivity and can be used wherever cellular service is available. Performance similar to consumer cellular products can be expected.
- Highest performance of Pendant-to-PWA and PWA-to-Pendant signal coverage occurs when the PWA is positioned at the highest possible elevation above ground to provide a clear view of Pendant users.
- PWA-to-Pendant signaling range varies depending on the terrain.
- For optimum performance, place the PWA a minimum of 6 feet above ground level and away from any object which might obstruct RF signal.

PWA Location Setup

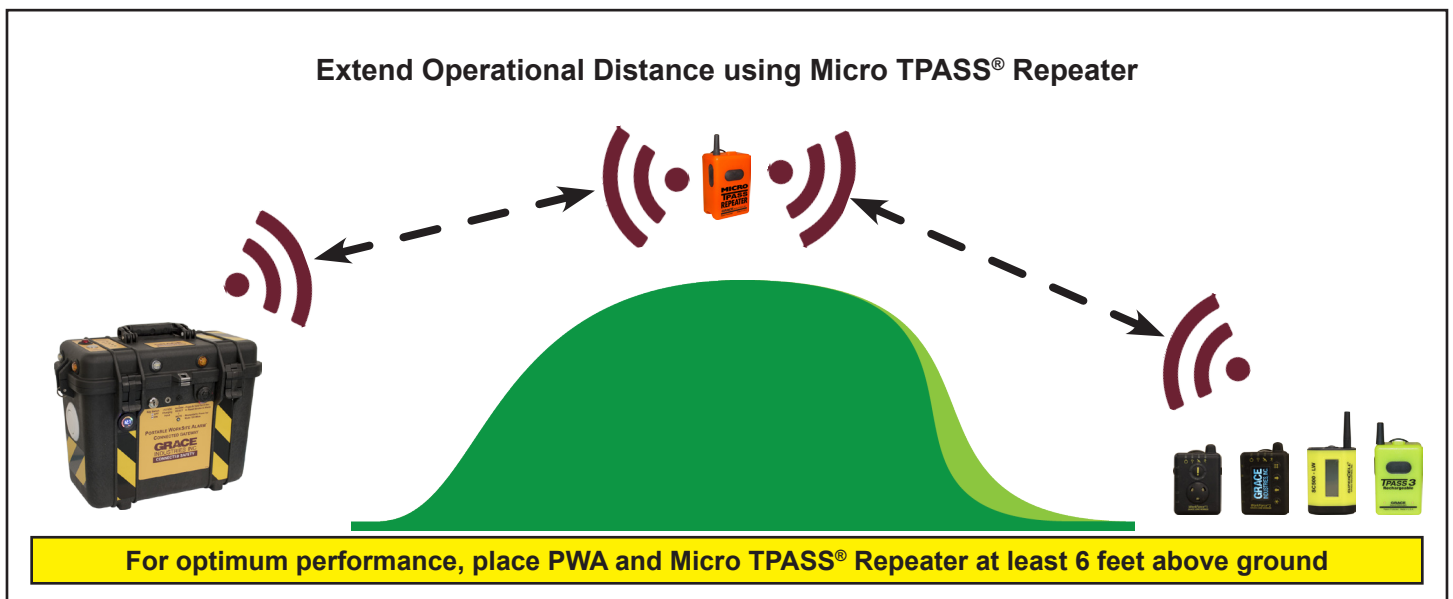


PWA Location Setup

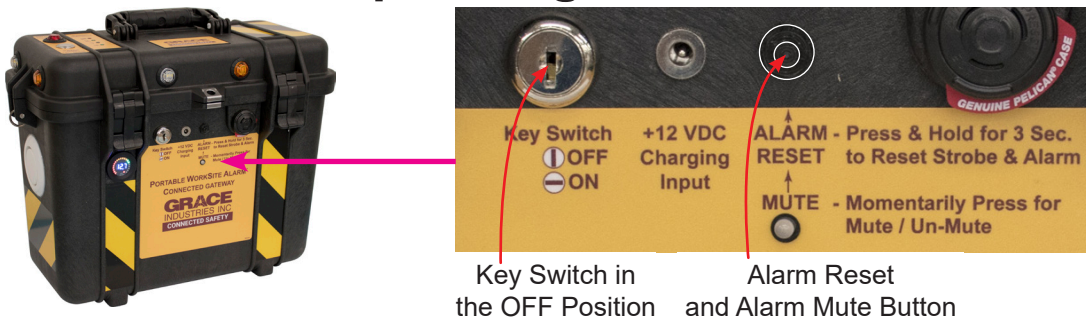
- Unobstructed line-of-sight operational distance between PWA and Pendant is a key factor in system performance.
- The system operates best over flat terrain with minimal foliage up to a minimum of 1/2 mile (800 meters).
- For optimum performance, place the PWA at least 6 feet above ground or on vehicle roof top.



- An optional, portable Micro TPASS® Repeater can be used to extend operational distance. Locating a Micro TPASS® Repeater at the first loss of line-of-sight area will extend coverage.
- For optimum performance, place the Micro TPASS® Repeater at least 6 feet above ground.



PWA Operating Instructions



STEP 1: PWA - Power ON

IMPORTANT: DO NOT Power ON or activate any Pendant device before Powering ON the PWA. Verify all Pendants are turned off.

- **Power ON:** Insert the ON/OFF Key and turn it to the ON position. After a 30 second initialization period, the PWA is active and monitoring for Pendant Signals. For added security, the key can be removed and kept with the Supervisor.
- **The PWA is connected to Grace Cloud Connect™ when the Grace Cloud Connect™ Network Status LED is solid Green.**
- If the Network Status LED is Green with a Red flash, this indicates a weak connection. If the Network Status LED is not solid Green after 2 minutes, it is recommended to relocate PWA until a solid Green LED is achieved.

STEP 2: Pendants - Power ON

IMPORTANT: DO NOT Power ON or activate any Pendant device before Powering ON and activating the PWA.

- **Power ON:** Consult Pendant user manual for instruction to Power ON or Power OFF.
- **Grace Pendants are configured to automatically connect to the PWA when Powered ON. Always ensure the PWA is Powered ON first, then Power ON the Pendant.**

PWA Alarm Strobe Lights and Alarm Sirens

- When an Alarm Signal from a Pendant is received by the PWA, this activates the Strobe Lights and dual Alarm Sirens. The Strobe Lights and Alarm Sirens will continue until the Pendant Alarm condition is cleared. This alarm Signal is also transmitted from the PWA to the Grace Cloud Connect™ Monitoring Portal.
- Momentarily press the Alarm Reset button (on front of the PWA) to mute the Alarm Sirens. The Strobe Lights will continue to indicate an Alarm was received. The Alarm Sirens will be reactivated when an additional Pendant Alarm signal is received.
- MUTE LED glows solid Red when the Alarm Sirens are muted (silenced).

IMPORTANT NOTE: When a Gateway receives an Alarm signal from a Pendant, the Gateway will sound its local alarm immediately, however to avoid excessive data usage and nuisance, or unintentional Alarms activating the Grace Cloud Connect™ Alerts, the Gateway uses a purposeful delay before relaying this Alarm to the Grace Cloud Connect™ Portal. If the Pendant's Alarm is cleared or reset before the purposeful delay time, the Alarm will not be transmitted to Grace Cloud Connect™ and the Alerts for this Alarm will not be generated. The default delay time is 10 seconds and can be adjusted. Consult Grace technical support for more options.

STEP 5: PWA Power OFF

Ensure all Pendants are OFF before Powering OFF the PWA. If Pendants are left ON, the Grace Cloud Connect™ web Portal will go into *Signal-Lost* shortly after turning OFF the PWA which will cause alerts to be sent out from the Grace Cloud Connect™ monitoring Portal.

- **Power OFF:** Insert the ON/OFF Key and turn it to the OFF position.

PWA Status Information

A feature of PWA allows Pendants with an alphanumeric screen (**WorkForce® WF2** or **SuperCell® SC500**) to request the PWA status by transmitting special Preprogrammed-Message #71 (System Status Request). Refer to Pendant user information for instruction on sending preprogrammed messages.

Upon receiving this message, the PWA Gateway will transmit updated status information to the Pendant's alphanumeric screen.

PWA Gateway status information contains the data shown below on these Pendant display screens:

SuperCELL® SC500 Pendant Screen Showing the PWA Status From Preprogrammed Message #71

C:5 I:5 G:2 N:c
Sender S:20 U:099

WorkForce® WF2 Pendant Screen Showing the PWA Status From Preprogrammed Message #71

C:5 I:5 G:2 N:c
B1010 D:01 B:4+
Sender S:20 U:099

Gateway Radio
Details

C:0-5 Cellular signal strength in # of bars
C:0 = No signal
C:5 = Full signal

I:0-5 Satellite signal strength in # of bars
I:0 = No signal
I:5 = Full signal

G:0-3 GPS connection status
G:0 = Fault detected
G:1 = No GPS Location Lock
G:2 = GPS Location Lock

N:c,I,- Grace Connected Network Status
N:c = Connected through Cellular
N:I = Connected with Satellite,
N:- = No network connection.

C:0-5 Cellular signal strength in # of bars
C:0 = No signal
C:5 = Full signal

I:0-5 Satellite signal strength in # of bars
I:0 = No signal
I:5 = Full signal

G:0-3 GPS connection status
G:0 = Fault detected
G:1 = No GPS Location Lock
G:2 = GPS Location Lock

N:c,I,- Grace Connected Network Status
N:c = Connected through Cellular
N:I = Connected with Satellite,
N:- = No network connection.

B: Gateway Network ID.
Example ID **B1010** shown above indicates an PWA with ID of 1010

D: Displays the number of Pendants currently connected to the Gateway
Example **D:01** shown above indicates one Pendant is connected to the PWA

B: Battery status of the gateway device.
Example **B:4+** indicates the PWA has 4 bars of battery power remaining and is charging.
4 = Full Battery, 4 bars
0 = Low Battery, 0 bars
+ = Charging
- = Discharging

NOTES:

ALARM RECEIVED by PWA

ALARM RECEIVED by PWA: When a Pendant goes into Alarm, an emergency RF signal is transmitted to the PWA. The Strobe Lights and dual Alarm Sirens are activated to alert nearby personnel of an Emergency Situation.

CAUTION: PWA Alarm Sirens are EXTREMELY LOUD. Use of hearing protection is recommended.

RESET PWA ALARM

RESET an ALARM at the PWA by pressing and holding the ALARM RESET button for three seconds. Once it is reset, the PWA reverts to the 30 second initialization period before becoming active.

REMOTE RESET via SuperCELL® SC500-CS: PWA Alarm Sirens and Strobe Lights can be reset remotely by the SC500-CS device by pressing and holding the Star ★ button for three (3) seconds. After the RESET signal is sent by the SC500-CS, the Pendant will sound three (3) acknowledgment tones.

REMOTE RESET via WorkForce WF2: PWA Alarm Sirens and Strobe Lights can be cleared remotely by the WF2 device by pressing and holding the Star ★ button for three (3) seconds. After the RESET signal is sent by the WF2, the Pendant will sound three (3) acknowledgment tones.

MUTE the ALARM SIRENS

When PWA is in ALARM, the Alarm Sirens can be muted (silenced) by momentarily pressing the ALARM RESET button located on the front of the unit.

The Alarm Sirens can be muted before an Alarm signal from a Pendant is received. In this case, only the Strobe Lights will indicate a received Alarm Signal.

MUTE LED will glow solid Red when the dual Alarm Sirens are muted (silenced). The Alarm Sirens will remain muted until they are un-muted or until the PWA is Powered OFF. To unmute and allow the sirens to sound, momentarily press the Alarm Reset / Siren Mute Button.

MUTE LED will be OFF when the Alarm Sirens are ENABLED.

CAUTION: PWA Alarm Sirens are EXTREMELY LOUD. Use of hearing protection is recommended.

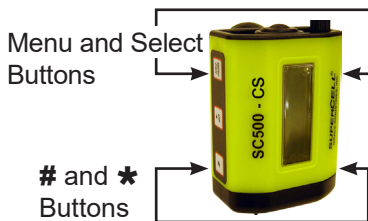
Pendant Specific Operation with PWA

EMERGENCY ALARM Signal Sent from Pendants



- **EMERGENCY ALARM** is activated by no motion of the Pendant, or a Fall detected, or by pressing the Pendant's Emergency Alarm Button. During the Alarm, an emergency RF signal is transmitted to the PWA Gateway and other connected Pendants within range.
- **Alarm Monitoring:** When PWA receives an Alarm Signal, the Strobe Lights and Alarm Sirens are activated. NOTE: the sirens can be muted by momentarily pressing the Alarm Reset / Mute Button on the PWA Gateway. When connected Pendants (with Alarm Monitoring enabled) receive a Pendant Alarm Signal, a unique audio tone and LED indication is activated on each Pendant within RF range. These indicators can be temporarily paused by simultaneously pressing both side buttons on the Pendant.
If the Pendant in Alarm is not reset (cleared), the Alarm Monitored indicators of other connected Pendants will reactivate after a preset time - 30 seconds for WorkForce® and SC500-CS; 60 seconds for TPASS®3.
- **CLEAR Pendant Alarm Signal:** To clear Pendant Alarm, simultaneously press and release the side buttons of the Pendant. PWA Gateway and other connected Pendants that have received the Alarm must also be cleared.

Send Alarm Signal from SuperCELL® SC500-CS



Simultaneously press and hold the **#** and ***** buttons for three seconds. When the countdown timer on the alphanumeric screen reaches zero, an Emergency Alarm signal will be transmitted and **[[[ALARM]]]** will be displayed. During the Alarm, an RF signal is transmitted to the PWA Gateway and other connected Pendants and equipment. **NOTE:** Alarm RF signal will **NOT** be sent if **#** and ***** buttons are released before the count timer reaches zero.

To clear the SC500-CS Alarm, simultaneously press and release the side **MENU PWR** and **SEL PWR** buttons. Refer to Pendant user information for SC500-CS instructions.

Send Alarm Signal from WorkForce® WF1



Press the Emergency Alarm Button (!) on front of Pendant. During the Alarm, an RF signal is transmitted to the PWA Gateway and other connected Pendants and equipment.

Clear the WF1 Alarm by pressing both side buttons simultaneously. Refer to Pendant user information for WF1 instructions.

Send Alarm Signal from WorkForce® WF2



Simultaneously press and hold the **#** and ***** buttons until **PANIC ALARM** is displayed on the alphanumeric screen. During the Alarm, an RF signal is transmitted to the PWA Gateway and other connected Pendants and equipment.

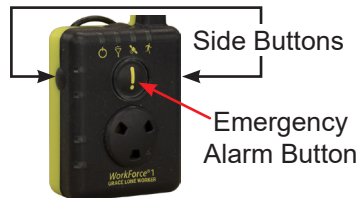
Clear the WF2 Alarm by pressing both side buttons simultaneously. Refer to Pendant user information for WF2 instructions.

Pendant Specific Operation with PWA

FALL DETECTION

WorkForce® Pendants have a built-in Fall Detection feature that permits detection of a free fall of greater than four feet. When a fall is detected, the Pendant will enter a 15 second Fall Pre-Alert period. This period allows the wearer enough time to reset (clear) the alert if no assistance is required. Fall detection Pre-Alert can be self-cleared and reset by simultaneously pressing and releasing both side buttons on WF1 and WF2.

If Fall detection Pre-Alert is not cleared within 15 seconds, WorkForce® Pendant will automatically enter the Fall Alarm state and transmit an RF signal to the PWA and any connected monitoring equipment.



WorkForce®
WF1



WorkForce®
WF2

FALL ALARM Signal Sent from WorkForce®



- **FALL PRE-ALERT:** is indicated by a Fall Pre-Alert tone emitted from the WorkForce® Pendant. WorkForce® WF2 Pendants will also display a visual message on the alphanumeric screen.
- **FALL ALARM:** if the Fall Pre-Alert is not cleared manually, the Pendant will enter the FALL ALARM state. When the Fall Alarm state is activated, the Pendant will send an RF signal to the PWA Gateway and other connected Pendants and equipment to alert of an Alarm condition.

• Alarm Monitoring:

When PWA receives FALL ALARM signal from a Pendant, the Strobe Lights and Alarm Sirens will be activated. The Alarm Sirens can be muted by momentarily pressing the Alarm Reset / Mute button on the PWA Gateway.

When connected Pendants (with Alarm Monitoring enabled) receive a Fall Alarm Signal, a unique audio tone and LED indication is activated. These indicators can be temporarily paused by simultaneously pressing both side buttons on the Pendant.

If the Pendant in Alarm is not reset or powered OFF, the Alarm Monitored indicators of other connected Pendants will reactivate after a preset time - 30 seconds for WorkForce® and SC500-CS; 60 seconds for TPASS®3.

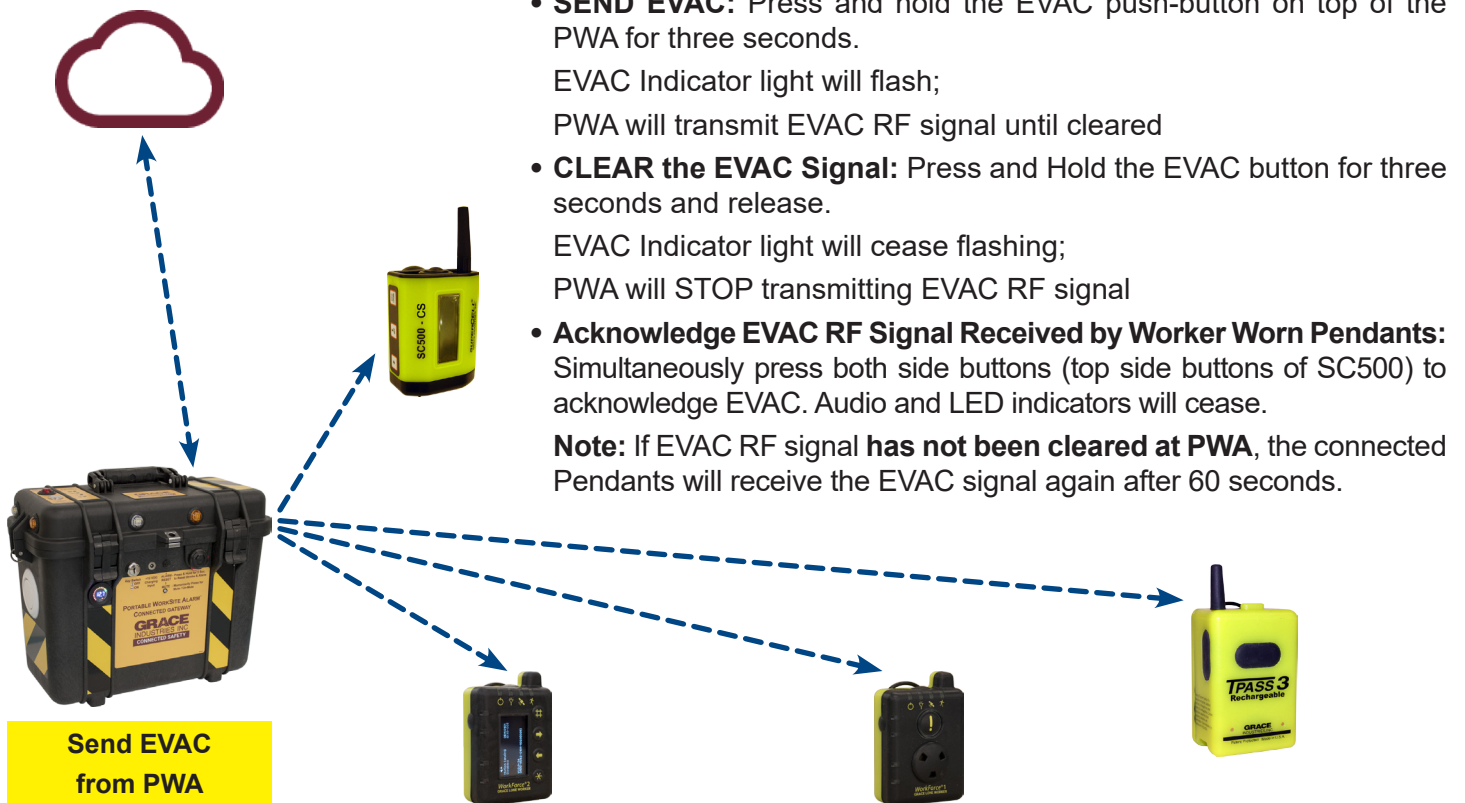
- **CLEAR Pendant Alarm Signal:** To clear the Pendant FALL ALARM, simultaneously press and release the side buttons of the Pendant. PWA Gateway and other connected Pendants that have received the Alarm must also be cleared.

EVACUATION (EVAC)

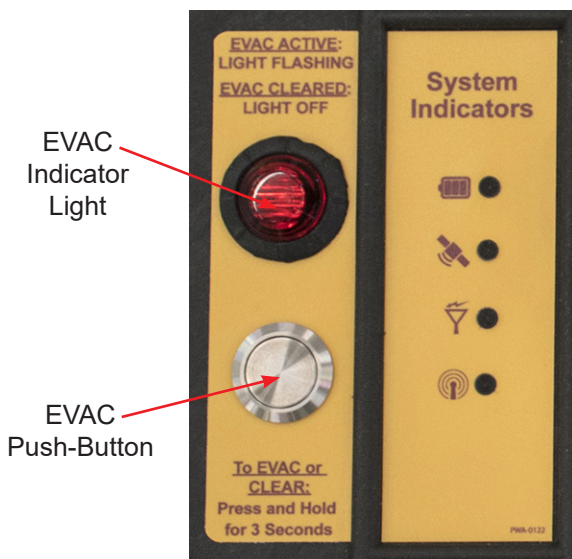
PWA Gateway, SC500-CS and WF2-CS are capable of sending an EVAC or Evacuation RF signal to all connected Pendants within range.

NOTE: EVAC Signal will only be transmitted to connected Gateways, Repeaters, and Pendants programmed to the same System Identification number (ID).

Send EVAC Signal From Portable Worksite Alarm



Send and Clear EVAC RF Signal Transmitting from PWA



SEND EVAC Signal: Press and hold the EVAC Push-Button on top of the PWA for three seconds. **EVAC Indicator light will flash.**

CLEAR the EVAC Signal: Press and Hold the EVAC button for three seconds and release. EVAC Indicator light will cease flashing.

Pendant Specific Operation with PWA:

Send EVAC Signal from SC500-CS or WF2-CS



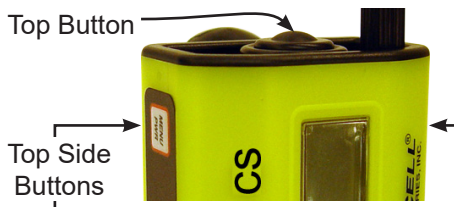
- **SEND EVAC:** Press top button. **EVAC TX!** will be displayed on Pendant screen;
SC500-CS or WF2-CS will transmit EVAC RF signal to PWA and other connected Pendants until cleared.

IMPORTANT NOTE: When PWA receives an EVAC RF Signal transmitting from a Pendant, the PWA will begin transmitting an EVAC Signal in addition to the Pendant.

- **CLEAR EVAC at Pendant:** Simultaneously press and release both side buttons of the Pendant.
CLEAR EVAC at PWA: Press and Hold the PWA EVAC button for three seconds and release.
- **Acknowledge EVAC Signal Received by Worker Worn Pendants:** Simultaneously press both side buttons (top side buttons of SC500-CS) to acknowledge EVAC. Pendant's Audio and LED indicators will reset.

Note: If EVAC signal **has not been cleared at the transmitting Pendant and the PWA**, the EVAC signal will be received by the other connected Pendants after 60 seconds.

Send and Clear EVAC Signal from SuperCELL® SC500-CS

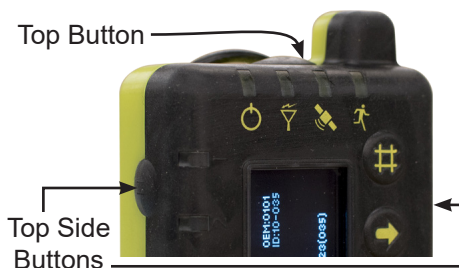


SEND EVAC from SC500-CS: Press top button. The EVAC RF signal will be transmitted and **EVAC TX!** will be displayed on the screen.

CLEAR EVAC at Pendant: SC500-CS will continue transmitting the EVAC signal until it is cleared by simultaneously pressing both top side buttons.

CLEAR EVAC at PWA: Press and hold the PWA EVAC button for three seconds to clear EVAC.

Send and Clear EVAC Signal from WorkForce® WF2-CS



SEND EVAC from WF2-CS: Press top button. The EVAC RF signal will be transmitted and **EVAC TX!** will be displayed on the screen.

CLEAR EVAC at Pendant: WF2-CS will continue transmitting the EVAC signal until it is cleared by simultaneously pressing both side buttons.

CLEAR EVAC at PWA: Press and hold the PWA EVAC button for three seconds to clear EVAC.

GRACE One (1) Year WARRANTY

Grace Industries Incorporated, of Fredonia PA 16124 USA, warrants products that it manufactures to be free from defects in workmanship and materials for a period of one (1) year from the original date of purchase. This warranty does not apply to third party products sold by Grace Industries. Grace Industries will repair or replace, at their sole discretion, defective products free of charge. This warranty applies to products that Grace Industries deems defective in its sole discretion due to defects in material or workmanship under normal use and maintenance and where a defect was not caused by accident, misuse or abuse of the product and that no disassembly, repairs or parts replacement were made or attempted by other than Grace Industries' personnel. **GRACE INDUSTRIES, INCORPORATED SHALL NOT BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE USE OF THE PRODUCT OR FAILURE OF THE PRODUCT TO OPERATE.**

The sole and exclusive remedy under all guarantees or warranties, expressed or implied, is strictly limited to repair or replacement as herein provided. **ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD OF ONE (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE.** The warranty and liability set forth here are in lieu of all other warranties, expressed or implied, in law or in fact, including warranties of merchantability and fitness for a particular purpose.

Warranty claims process: 1) Obtain a Return Authorization Number from Grace Industries corporate headquarters by calling phone number 724-962-9231, or by email correspondence to sales@graceindustries.com. 2) The product name, serial number, date and proof of purchase must be provided and 3) Return products including Return Authorization Number, prepaid and accompanied by original proof of purchase that states the date and location of purchase to: Grace Industries, Inc., Service Department, 305 Bend Hill Road, Fredonia, PA 16124, USA. Customer is responsible for all shipping costs, return shipping costs, handling, or any other fees associated with a warranty claim.

FCC Statements

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

Industry Canada Statements

This Class A digital apparatus complies with Canadian ICES-003. This device complies with Industry Canada licence-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. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada. (select the class for your device). Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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