



Grace Industries
HGAC EE11-24
MAN-DOWN RESCUE SYSTEMS



Grace-Watch® Advanced Safety Monitoring System

| | | | |
|---|--|---------------|----------------|
|  <p align="center">Computer</p> | <p>Includes MX900-H Monitor and Grace-Watch Software</p> <ul style="list-style-type: none"> - Includes Grace-Watch®Personnel Accountability and Management Software - Use with Grace Locator Beacons- image overlay feature to display indoor location - Indoor Performance is subject to the effects of building construction and RF noise - Use as Repeater to Enhance Coverage - GPS outdoor location display feature Grace-Watch®does not require an internet connection to operate, however internet is required to download and set-up cached maps -Grace-Watch® will display location when using both the Grace Locator Beacon and the GPS outdoor location of the SC500 GPS models. | | USD |
| | | GWML-H | \$4,323 |
| | OPTIONAL - Grace-Watch Software Release Agreement (yearly) | SUMCGW | \$435 |

SMS SERIES - Advanced Safety Monitoring System

| | | | | |
|---|---|---|---|----------------|
|  | <p>Safety Monitoring System for use with TPASS®3, SC500, and WorkForce®</p> <ul style="list-style-type: none"> - Monitors 72 Users - Programmable Names - Receives Location Data from Grace Locator Beacons - 16 Programmable Open Collector Outputs - Relay Contact Output - Line Out Audio - 10W Amplified Speaker - User recorded Voice Alarm Annunciator - 16 hour battery back-up - Indoor coverage of 200,000 sq. feet and up to 1 mile outdoor clear line of site - Indoor Performance is subject to the effects of building construction and RF noise | | SMS-H | \$6,828 |
|  | <p>T3 Remote Enhanced Transceiver - for use with SMS-H Systems</p> | External transceiver for use with SMS-H for enhanced signal reception and propagation, 100 ft of cable connected to the SMS-H. | T3RET-H | \$1,730 |
|   | <p>T3 Remote Enhanced Transceiver - Heated - for use with SMS-H Use below < 32°F/0°C</p> | External transceiver for use with SMS-H for enhanced signal reception and propagation, 100 ft of cable connected to the SMS-H - with heat option requires 120VAC to power heating element |  T3RET-H-HT | \$2,072 |
| | Replacement Cable | 100 foot replacement cable for T3 remote enhanced transceiver | T3RET-C-100 | \$329 |
|  | LOCATOR BEACON - Battery Powered | Locator Beacon with lithium-ion battery | LT100-H-L | \$262 |
| | LOCATOR BEACON - External AC | Locator Beacon with external power supply | LT100-H-EP | \$302 |
| | Replacement Battery | Lithium-ion replacement battery for Locator Beacon - LT100-H-L- field replacement | LT100RB-H | \$31 |
|  | <p>Automatic Telephone Dialer for use with all base receiver configurations.</p> | User recorded voice message and can dial up to 8 telephone numbers sequentially | ATD | \$519 |
|  | Speaker System Kit for SMS | Includes: 8.1" Indoor/Outdoor 50 watt PA horn speaker, mounting bracket, hardware. 100 ft roll of 16 guage speaker wire. | SMS-ASPK-1 | \$202 |
|  | Amplified Speaker System Kit for SMS 40 watt 2-channel power amplifier | Includes: 8.1" Indoor/Outdoor 50 watt PA horn speaker, mounting bracket, hardware. RCA audio cable 12 ft black, 100 ft roll of 16 guage speaker wire | SMS-ASPK-2 | \$465 |
| | SITE SURVEY- PRE/POST WALK THROUGH -Daily Rate | | MISC-SS-PP-WT | \$2,500 |
| | TRAINING - On-Site - Daily Rate | | MISC-OS-TRAIN | \$2,500 |
| | TRAINING - On-Line - Daily Rate | | MISC-OL-TRAIN | \$750 |

MS2000X - Advanced Safety Monitor - Transmit and Receive - EVAC/Panic/Messaging

\$USD

MS2000X EVAC SERIES



Two-Way-Micro Transceiver System, two way signaling, 12 volt DC operation - Custom Configurable Inputs/Outputs (See Page 3) - Indoor coverage of 200,000 sq. feet and 1 mile outdoor clear line-of-site. Indoor Performance is subject to the effects of building construction and RF noise. Signal repeater feature is active. **NOW INCLUDES -D External I/O Jack (order ATD dialer separate) and PM2040 Pole Mount Brackets**

MS2000X-H-X-DC-D

\$2,276

Two-Way-Micro Transceiver System, two way signaling, 120 volt AC operation, includes 24 hour standby battery backup (battery backup required on this model) - Custom Configurable Inputs/Outputs (See Page 3) - Indoor coverage of 200,000 sq. feet and 1 mile outdoor clear line-of-site. Indoor Performance is subject to the effects of building construction and RF noise. Signal repeater feature is active. **NOW INCLUDES -D External I/O Jack (order ATD dialer separately) and PM2040 Pole Mount Brackets**

MS2000X-H-X-AC-B-D

\$2,805

Two-Way-Micro Transceiver System, two way signaling, 120 volt AC operation, includes 24 hour standby battery backup with light/siren (battery backup required on this model) - Custom Configurable Inputs/Outputs (See Page 3) - Indoor coverage of 200,000 sq. feet and 1 mile outdoor clear line of site. Indoor Performance is subject to the effects of building construction and RF noise. Signal repeater feature is active. **NOW INCLUDES -D External I/O Jack (order ATD dialer separately) and PM2040 Pole Mount Brackets**

MS2000X-H-X-AC-B-LS-D

\$3,820

OMIT Option-D-External I/O Jack - NEW Option D is now included in the standard part configuration, if you do not want the option, you have to remove it from the now standard part number. The OMIT OPITON -D deducts \$50.



-\$50

Option-HT-Heated Enclosure - Use in environments < 32° F / 0° C -



\$342

Option-SP-Custom Configured I/O - requires completed I/O Worksheet with order. See Part Number Configurator

\$197



Automatic Telephone Dialer -Telephone Dialer for use with all base receiver configurationsx- order with Option D - includes cable and connector interface to MS2000X. User recorded voice message and dials up to 8 telephone numbers sequentially.

ATD

\$519



Cable Assembly - 10' cable with installed mating connector for MS2000X and flying leads on external equipment side. Used when integrating with other systems. NOTE: it is still required to order the OPTION D separately to have a wired jack to connect with this cable.

MS-CA-10

\$76



Cable Assembly - 10' cable with installed mating connector for MS2000X and flying leads on external equipment side. Used when integrating with other systems. NOTE: it is still required to order the OPTION D separately to have a wired jack to connect with this cable.

MS-CA-20

\$123

How to Order the MS2000X

MS2000X Part Number Configurator

Select Base Pricing from Price List and use add/delete Options to configure a part number.

| | | | | | | |
|--------------------------------|--|--|--|---|--|---|
| <p>Select "-XX-" →→</p> | <p>Select -AC- 120 VAC or -DC- 16 VDC</p> | <p>Select -B- Battery Back-Up or -N- No Battery Back-Up</p> | <p>Select -LS- Light & Siren or -NN- No Light & Siren</p> | <p>Select -HT- Heater Option</p> <p>Use in environments below 32°F/0°C</p> <p>Add \$342</p> | <p>NEW DELETE OPTION - Remove the -D- External I/O Jack Option from the new standard part number to remove the External I/O Jack.</p> <p>DEDUCT (-\$50)</p> | <p>Select -SP- Special Custom Option</p> <p>Input/Output * See the Page 7</p> <p>Add \$197</p> |
| | -AC- or -DC- | -B- or -N- | -LS- or -NN- | -HT- | -D- | -SP- |
| MS2000X-H-X- | -XX- | -X- | -XX- | -XX- | -X- | -XX- |

Example MS2000X-H-R-X-AC-B-LS-D-SP

- 1 
- 2 
- 3 
- 4 

INPUTS

| FACTORY DEFAULTS - INPUTS (see below) | | | | | | |
|---|---------------|---|--------------------------------|--|---|--|
| INPUT Settings - Shipped with default if part number has not been designated with -SP and accompanied with I/O Worksheet | | | | | | |
| All Models MS2000X | | Command Type - PANIC - EVAC - CANNED MSG - FF MSG | Delay Time Seconds 0-255 | Input Type- <i>OTA - Over The Air</i> • One-Shot • Non-Latched Repeating Message • Latched Repeating • Latched Repeating (Clear On Input Toggle) • Latch can be cleared through OTA RX User Selectable Message | Over The Air OTA OTA TX Repeat Message Timer 0-65,000 Seconds | |
| OPTO-ISOLATED INPUTS | INPUT 1 | PANIC | 1 | OTA TX and Non- Latched Repeating- Cleared by opening input | 6 seconds | |
| | INPUT 2 | EVAC | 1 | OTA TX and Non- Latched Repeating- Cleared by opening input | 6 seconds | |
| | INPUT 3-SP | -SP CANNED MSG | 1 | OTA TX and Non- Latched Repeating- Cleared by opening input or by hot-key message | 1 hour | |
| | INPUT 4-SP | -SP FF MSG | 1 | OTA TX and Non- Latched Repeating- Cleared by opening input or by hot-key message | 1 hour | |
| <p>-SP SP - \$165 Custom Configuraton Option- Used in advanced applications, inputs 3 and 4 are capable of transmitting a CANNED MSG- Canned Message or FF MSG -16 Character Free Form Message - order processing requires complete I/O worksheet.</p> | | | | | | |
| | LOW BATTERY | FF MSG | 0 | OTA TX- and Internal Latched Repeating- Cleared by reconnecting AC power | 1 hour | |
| | LOSS OF POWER | FF MSG | 0 | OTA TX- and Internal Latched Repeating- Cleared by reconnecting AC power | 1 hour | |

CONTACT FACTORY FOR I/O Consultation and I/O Worksheet Assistance

| FACTORY DEFAULTS - OUTPUTS (see below) | | | | | | |
|---|------------|------------------------|----------------------------------|-----------------|--|-----------------|
| OUTPUT Settings - Shipped with default if part number has not been designated with -SP and accompanied with I/O Worksheet | | | | | | |
| Radio H All Models MS2000X | | Trigger Event | Output Delay Timer Seconds | Toggle Timer | Output Type <i>OTA - Over The Air</i> | Activation Time |
| FORM C RELAYS 6A Contacts | RELAY 1 | PANIC E | 0 | 0 | OTA RX and Driven By Input 1 and OTA -Non- Latched Repeating- Cleared by opening input or by hot-key message | 20 seconds |
| | RELAY 2 | EVAC | 0 | 0 | OTA RX and Driven By Input 2-Non- Latched Repeating- Cleared by opening input or by hot-key message | 20 seconds |
| | RELAY 3-SP | CANNED MSG | 0 | 0 | OTA RX and Driven By Input 3-Non- Latched Repeating- Cleared by opening input or by OTA hot-key message | 3 Seconds |
| | RELAY 4 | Loss of AC Input Power | 0 | 0 | Non- Latched - Cleared AC Input Power is restored | 3 Seconds |

CONTACT FACTORY FOR I/O Consultation and I/O Worksheet Assistance

-SP SP- \$165 Custom Configuraton Option- Used in advanced applications, inputs 3 and 4 are capable of transmitting a CANNED MSG- Canned Message or FF MSG -16 Character Free Form Message - order processing requires complete I/O worksheet.

OUTPUTS

- 1 
- 2 
- 3 
- 4 

REPEATERS - ENHANCED COVERAGE DEVICES

Using Repeaters



T3 HIGH PERFORMANCE Repeater enhances system coverage. Up to ~ **200,000 sq ft** of coverage area. *Indoor Performance is subject to the effects of building construction and RF noise.

Do you need a heated repeater?

If the environment will be below 32 °F/0° C, select

| | | | | |
|---|---|---|---|-----------------------|
|  | <p>T3 HIGH PERFORMANCE Repeater-ENHANCES SYSTEM COVERAGE beyond the rule of thumb of indoor coverage of 200,000 sq. feet and up to 1 mile outdoor clear line of site.</p> | <p>Signal repeater 120VAC with 48 hour battery backup for increased signal propagation in hard to reach areas. Includes PM2040 Pole Mount Bracket</p> | <p>T3REP-H</p> | <p>\$2,405</p> |
| | <p>T3 HIGH PERFORMANCE Repeater with Heat Option- ENHANCES SYSTEM COVERAGE beyond the rule of thumb of indoor coverage of 200,000 sq. feet and up to 1 mile outdoor clear line of site</p> | <p>Signal repeater 120VAC with 48 hour battery backup with heat option. - Rated to -30°C/-22°F - Includes PM2040 Pole Mount Bracket</p> | <p>T3REP-H-HT </p> | <p>\$2,746</p> |
| | <p>T3 HIGH PERFORMANCE Repeater with EXTERNAL ANTENNA - ENHANCES SYSTEM COVERAGE beyond the rule of thumb of indoor coverage of 200,000 sq. feet and up to 1 mile outdoor clear line of site</p> | <p>Signal repeater 120VAC with 48 hour battery backup with heat option. - Rated to -30°C/-22°F - Includes PM2040 Pole Mount Bracket</p> | <p>T3REP-H-ET </p> | <p>\$2,620</p> |
|  | <p>Portable Work-Site Alarm & Repeater A portable warning device that receives signals from personal safety Alarms, and provides a loud dual; 120 dBA audio alarm and flashing strobe light to notify other personnel in the immediate area of an Alarm condition. 12VDC or 120VAC Rechargeable 48 hour battery. Functions as BOTH Repeater and Out-of-Range Notification - limited to 8 active users when enabled with Out-of-Range feature. Unlimited Users when used without Out-of-Range feature. Indoor coverage of ~200,000 sq. feet and up to 1 mile outdoor clear line of site. Indoor Performance is subject to the effects of building construction and RF noise. Use TPASS3 Micro Repeater to Extend Coverage.</p> | | <p>G-PWSA-H-1</p> | <p>\$3,942</p> |
|  | <p>TPASS Micro Repeater-Rechargeable</p> | <p>Portable Micro Repeater - Rechargeable for temporary use with Portable Worksite Alarm Only - Sold Only with the Portable Work Site Alarm</p> | <p>MREP-H-R</p> | <p>\$1,148</p> |

Worker Worn Man-Down Alarms - INTRINSICALLY SAFE

TPASS® 3 Transmit and Receive

Used with Advanced Safety Monitoring Systems and supports Grace LOCATOR BEACONS

RECHARGEABLE - 80 hours of use - 4-6 Hours in Full Alarm - 6-8 hours Recharge Time

Note: Intrinsically Safe TPASS 3-R and LTX200-R are provided with a 120VAC or 12VDC Charging Key power adapter- specify with order



| | | | \$USD |
|---|--|-------------------------|---------|
|  | Two-Way signaling intrinsically safe Rechargeable with Motion and Auto-On Activation | TP3-H-R-M-A-xxx-xx | \$1,148 |
| | Two-Way signaling intrinsically safe Rechargeable with Motion sensing only and Manual Activation | TP3-H-R-M-MAN-xxx-xx | \$1,148 |
| | Two-Way signaling intrinsically safe Rechargeable with motion sensing only - AM-Alarm Monitoring - Auto-On Activation | TP3-H-R-AM-M-A-xxx-xx | \$1,148 |
| | Two-Way signaling intrinsically safe Rechargeable with motion sensing only - AM-Alarm Monitoring - Manual Activation | TP3-H-R-AM-M-MAN-xxx-xx | \$1,148 |

New Radio-H PART NUMBER EXAMPLE- TP3-H-R-H-A-xxx-xx

xx = Charger Type - select AC or DC (AC=120VAC Wall Chgr or DC=12VDC Vehicular Chgr)

xxx = Seconds of Motion Timing select 060,090,120 - NOT FIELD ADJUSTABLE

Intrinsically Safe TPASS®3-R and LTX200-R Rechargeable Accessories



| | | |
|-------------------|---|-------|
| KC1 | Key-Charger Only - No power adapters | \$56 |
| KC1-12 | Key-Charger with 12VDC vehicle power adapter | \$66 |
| KC1-120 | Key-Charger with 120VAC wall power adapter | \$66 |
| KC1A-12V | 12VDC vehicle power adapter for TPASS 3-R, LTX200-R and SC500 | \$29 |
| KC1A 120V | 120VAC Wall Power Adapter for TPASS 3-R, LTX200-R and SC500 converts to 12V at 500mA | \$29 |
| KC1A-INT | International Wall Power Adapter for TPASS 3-R, LTX200-R and SC500 converts to 12V at 500mA | \$42 |
| ANT-H-91 | Replacement Antenna | \$33 |
| RC1-T3R-5 | Rack Charger holds 1 - 5 LTX200 or TPASS3 rechargeable units, includes power supply for standard 120VAC power. | \$612 |
| RC1-T3R-10 | Rack Charger holds 1 - 10 LTX200 or TPASS3 rechargeable units, includes power supply for standard 120VAC power, mounting hole 16" on center | \$676 |

| Models of TPASS®3 | Auto-On | Manual-On | Location | Compatible with Advanced Systems | AM Alarm Monitoring |
|-------------------------|---------|-----------|----------|----------------------------------|---------------------|
| TP3-H-R-M-A-xxx-xx | √ | | √ | √ | |
| TP3-H-R-M-MAN-xxx-xx | | √ | √ | √ | |
| TP3-H-R-AM-M-A-xxx-xx | √ | | √ | √ | √ |
| TP3-H-R-AM-M-MAN-xxx-xx | | √ | √ | √ | √ |

| | |
|--|---|
| <p>(-xxx) Select Lack of Motion Time setting: 060 Seconds 090 Seconds 120 Seconds</p> <p>Lack of Motion - when a user stops moving a timer begins to count down from the motion time setting. The device will go into Pre-Alert approximately 15 seconds before the timer has reached full alarm at 0 seconds. Pre-Alert is meant to prompt the user to move to reset the motion timer. If the user moves during the Pre-Alert time, the pre-alert timer will reset, as long as it is not in full alarm. If in full alarm, the user must press the two side buttons to reset the alarm.</p> <p>Changes in Timing require return to the factory and a reprogramming fee of \$100 each</p> | <p>(-xx) Select Charger Type -AC 120VAC - Wall Charger -DC 12 VDC - Vehicular Charger -IC International Voltage</p> <p>AM-Alarm Monitoring is a function of one worn device used to monitor another worn device. AM-Monitoring can be used as the sole form of monitoring OR it can also be used in conjunction with Base Alarm Monitoring.</p> |
|--|---|



SuperCELL® SC500-H Models - Intrinsically Safe



SuperCELL® SC500-H NON-GPS Models



NON-GPS - Intrinsically Safe Rechargeable Personal distress alarm with **two-way signaling, motion sensing On/Off and user adjustable timing to alarm**, lithium-ion rechargeable battery - 40 hours of run-time - 120VAC or 12VDC power adapter

- Programming of location names and user names requires the ACTiSYS IR Programmer - order separately.
- Select model number by application - see Features Matrix
- Operates with Advanced Monitoring System and supports Grace Locator Beacons

SELECT WHEN ORDERING

xx = AC = 120VAC - Wall Charger
OR

xx = DC = 12VDC - Vehicle Charger
xxx = motion timing - select 60, 90 or 120 seconds (Default Timing is 90 Seconds)

| | | | |
|---------------------------------|---------------------|-------------------|----------------|
| Lone Worker Model | see features matrix | SC500-H-LW-xx-xxx | \$1,186 |
| Supervisor's Model | see features matrix | SC500-H-SM-xx | \$1,186 |
| Confined Space Kit Model | see features matrix | SC500-H-CS-xx | \$1,186 |



GPS Intrinsically Safe Rechargeable Personal distress alarm with **two-way signaling, motion sensing On/Off and user adjustable timing to alarm**, lithium-ion rechargeable battery - 24 hours of run-time - 120VAC or 12VDC power adapter

- Programming of location names and user names requires the ACTiSYS IR Programmer - order separately.
- Select model number by application - see Features Matrix
- Operates with Advanced Monitoring System and supports Grace Locator Beacons

NEW MODEL operates with both the Grace Locator Beacon and outdoor GPS location - The GPS outdoor location display feature does not require an internet connection to operate, however internet is required to download and set-up cached maps.
Select model number by application - see Features Matrix
* Time to acquire GPS fix will vary upon location and environment

SELECT WHEN ORDERING

xx = AC = 120VAC - Wall Charger
OR

xx = DC = 12 VDC - Vehicle Charger
xxx = motion timing - select 60, 90 or 120 seconds (Default Timing is 90 Seconds)

| | | | |
|---|---------------------|-----------------------|----------------|
| Lone Worker⁺ GPS Model | see features matrix | SC500-H-LW-GPS-xx-xxx | \$1,327 |
| Supervisor's⁺ GPS Model | see features matrix | SC500-H-SM-GPS-xx | \$1,327 |
| Confined Space⁺ GPS Model | see features matrix | SC500-H-CS-GPS-xx | \$1,327 |

SC500-H GPS and Non-GPS FEATURE MATRIX



NEW
 Confined Space
 SC500-H-CS
 SC500-H-CS-GPS

Fire Kit
 Model

NEW
 Supervisor Model
 SC500-H-SM
 SC500-H-SM-GPS

NEW
 Lone Worker
 SC500-H-LW
 SC500-H-LW-GPS

| | Confined Space SC500-H-CS SC500-H-CS-GPS | Fire Kit Model | Supervisor Model SC500-H-SM SC500-H-SM-GPS | Lone Worker SC500-H-LW SC500-H-LW-GPS |
|--|--|-------------------|--|---|
| Out-of-Range* Limited to 8 total users | √* | | | √ |
| Location | √ | | √ | √ |
| Top Button EVAC | √ | | | |
| Top Button Panic | | | √ | √ |
| AM-MONITORING | √ | | √ | √ |
| Auto-On Activation | | | | √ |
| Fixed Motion Control | | | | Admin Configurable |
| User Selectable Motion ON/OFF | √ | | √ | |
| User Selectable Motion Timing | √ | | √ | |
| User configurable canned text msg** | √√ | | √√ | √√ |
| User configurable Name Files** | √√ | | √√ | √√ |
| User configurable Locator Files** | √√ | | √√ | √√ |

√√- Requires the IR-ActiSys Programmer and Software

- * GPS models of the SC500 have a **run time of 24 Hours** - Non-GPS models **have a 40 hour run time.**
- * GPS versions **are used with the Grace-Watch® System** to display outside location.
- * Grace-Watch® GPS **outdoor location display** feature does not require an internet connection to operate, however internet is required to download and set-up cached maps.
- * **Time to acquire GPS fix will vary upon location and environment**

SuperCELL®SC500 Accessories

\$USD



SC500 Multiple Unit Charger



International Power Adapter

| | | | |
|---|---|----------------|--------------|
| SC500 Battery Charger, Single Unit with charger base and power adapter specify AC or DC | Single unit battery charger for SC500 with lithium-ion battery, includes charging base and 120VAC or 12VDC power adapter | SC500SBC-xx | \$62 |
| SC500 Battery Charger Base without Power Adapter | Single unit battery charger base for SC500 with lithium-ion battery, includes charging base only | SC500SBCB | \$42 |
| SC500 - 12VDC Charging power adapter without charger base | 12VDC vehicle charging power adapter for SC500, TPASS 3-R and LTX200-R, charging base not included | KC1A-12V | \$29 |
| SC500 - 120VAC Charging Power Adapter without charger base | 120VAC charging adapter for SC500, TPASS 3-R and LTX200-R, charging base not incl. | KC1A-120V | \$29 |
| SC500 Battery Charger - (1-5) multiple unit charger base and power adapter - specify AC or DC | For 1 to 5 SC500s, Multiple unit battery charger for SC500 with lithium-ion battery, includes charging base and 120VAC or 12VDC power adapter | SC500MBC-5-xx | \$202 |
| SC500 Battery Charger - (1-10) multiple unit charger base and power adapter - specify AC or DC | For 1 to 10 SC500s, Multiple unit battery charger for SC500 with lithium-ion battery, includes charging base and 120VAC or 12VDC power adapter | SC500MBC-10-xx | \$375 |
| SC500 - International Charging Power Adapter - does not include charger base | 120VAC charging adapter for SC500, TPASS 3-R and LTX200-R, charging base not incl. | KC1A-INT | \$42 |
| Replacement Antenna - Radio-H 915 MHz - For Use in North America | Replacement antenna - SC500/TPASS3/LTX200 | ANT1-H-91 | \$33 |
| ACTiSYS IR Programmer | Infrared Wireless Programming Adapter and Software for SC500 (Name and Locator Name Database Programming) | USB IRP | \$233 |
| SC500 Replacement Battery | Intrinsically safe lithium-ion replacement battery for SC500, factory replacement only | SC500RB | \$388 |
| Ultra Clip Replacement Clip Kit | Ultra Clip Replacement Kit – includes post, swivel clip and adhesive disk. Recommend bead of Black E6000 adhesive run along the edge. (E6000 adhesive not included) | UC-RK | \$20 |

WorkForce®

Description

Part Number (See Page XX -Feature Matrix)

List \$USD



- ✓ General Purpose- All Duty-Lone Worker Worn Device.
- ✓ Used in Buddy Kit or Supervisor worn device configurations.
- ✓ Used with Grace Locator Beacons.
- ✓ GPS receiver model used with Grace-Watch® Mapping and WorkForce®2
- ✓ Can be used with existing Grace Radio-H systems.
- ✓ New Internal Antenna
- ✓ Rechargeable
- ✓ IP67

| | |
|----------------------|--------|
| WF1-LW-090-xx | \$ 849 |
| WF1-LW-AM-090-xx | \$ 849 |
| WF1-LW-GPS-090-xx | \$ 911 |
| WF1-LW-AM-GPS-090-xx | \$ 911 |
| WF1-SM-090-xx | \$ 849 |
| WF1-SM-AM-090-xx | \$ 849 |
| WF1-SM-GPS-090-xx | \$ 911 |
| WF1-SM-AM-GPS-090-xx | \$ 911 |



- ✓ General Purpose- All Duty-Lone Worker Worn Device.
- ✓ High Visibility OLED Display
- ✓ Used in Buddy Kit or as a Supervisor to monitor multiple users
- ✓ Displays Grace Locator Beacon Location of others in alarm
- ✓ Optional GPS receiver model for use with Grace-Watch® Mapping
- ✓ Displays outdoor GPS coordinates of others(GPS model) in alarm
- ✓ Can be used with existing Grace Radio-H systems.
- ✓ New Internal Antenna
- ✓ Rechargeable
- ✓ IP67

| | |
|-------------------|----------|
| WF2-LW-090-xx | \$ 1,012 |
| WF2-CS-090-xx | \$ 1,012 |
| WF2-SM-090-xx | \$ 1,012 |
| WF2-LW-GPS-090-xx | \$ 1,095 |
| WF2-CS-GPS-090-xx | \$ 1,095 |
| WF2-SM-GPS-090-xx | \$ 1,095 |

(-xx) Select Charger Type
 -AC 120VAC - Wall Charger
 -DC 12 VDC - Vehicular
 -IC International Voltage

FACTORY DEFAULT -90 Second Motion Timing - Motion Timing is set to (090) seconds.

No Motion - when a user stops moving a timer begins to count down from the motion time setting.

The device will go into Pre-Alert approximately 15 seconds before the timer has reached full alarm at 0 seconds. Pre-Alert is meant to prompt the user to move to reset the motion timer.

If the user moves during the Pre-Alert time, the pre-alert timer will reset, as long as it is not in full alarm. If in full alarm, the user must press the two side buttons to reset the alarm.

Motion time setting are user configurable by using the USB configuration cable and Grace WorkForce software utility.

| Models of WorkForce® Feature Matrix | LW Lone Worker Model | SM Supervisor Model | CS Confined Space Model | AM Alarm Monitoring | GPS Outdoor Location | | | | | | |
|--|-------------------------------|---------------------------|----------------------------------|--|--|-----------------------|--------------------------|------------------------|--|---|--|
| | Default Auto-On * | Default Manual-On * | Default Top Button EVAC | Default Alarm Monitoring of all devices * | Used with Grace- Watch® Mapping | Top Button EVAC | Front Button PANIC | Top Button PANIC | Used with Grace Locator Beacon | Alarm Display and Beacon ID | Display Alarm and Beacon ID and GPS |
| WF1-LW-090-xx | √ | | | | | | √ | | √ | | |
| WF1-LW-AM-090-xx | √ | | | √ | | | √ | | √ | | |
| WF1-LW-GPS-090-xx | √ | | | | | | √ | | √ | | |
| WF1-LW-AM-GPS-090-xx | √ | | | √ | √ | | √ | | √ | | |
| WF1-SM-090-xx | | √ | | | | | √ | | √ | | |
| WF1-SM-AM-090-xx | | √ | | √ | | | √ | | √ | | |
| WF1-SM-GPS-090-xx | | √ | | | √ | | √ | | √ | | |
| WF1-SM-AM-GPS-090-xx | | √ | | √ | √ | | √ | | √ | | |
| WF2-LW-090-xx | √ | | | √ | | | | √ | √ | √ | |
| WF2-CS-090-xx | | | √ | √ | | √ | √ | | √ | √ | |
| WF2-SM-090-xx | | √ | | √ | | | | √ | √ | √ | |
| WF2-LW-GPS-090-xx | √ | | | √ | √ | | | √ | √ | √ | √ |
| WF2-CS-GPS-090-xx | | | √ | √ | √ | √ | √ | | √ | √ | √ |
| WF2-SM-GPS-090-xx | | √ | | √ | √ | | | √ | √ | √ | √ |

* Features that are user configurable by using the USB configuration cable with Grace WorkForce PC software utility.

| | |
|---------------------------|--|
| (-xx) Select Charger Type | FACTORY DEFAULT -90 Second Motion Timing - Motion Timing is set to (090) seconds. |
| -AC 120VAC - Wall Charger | No Motion - when a user stops moving a timer begins to count down from the motion time setting. The device will go into Pre-Alert approximately 15 seconds before the timer has reached full alarm at 0 seconds. Pre-Alert is meant to prompt the user to move to reset the motion timer. |
| -DC 12 VDC - Vehicular | If the user moves during the Pre-Alert time, the pre-alert timer will reset, as long as it is not in full alarm. If in full alarm, the user must press the two side buttons to reset the alarm. |
| -IC International Voltage | Motion time setting are user configurable by using the USB configuration cable and Grace WorkForce software utility. |

HOW A LOCATOR BEACON WORKS-

- The Locator Beacon is a transmitting device that provides constant "ping" messages (2 messages per second). This new Locator Beacon eliminates time consuming set-up like required in the old style motion sensing Grace Locator.
- When a TPASS3 or SC500 is within range of a Locator Beacon it receives the ID of the Locator Beacon.
- When an ID is received the TPASS3 or SC500 will transmit or "pitch" the ID back to the Grace Watch or SMS-H to associate a location with the ID numbers.
- The SC500 is programmed using the USB-IRP Programmer. Programming is required to create a user defined location list which corresponds to a numbered Locator ID in the Locator Beacon.

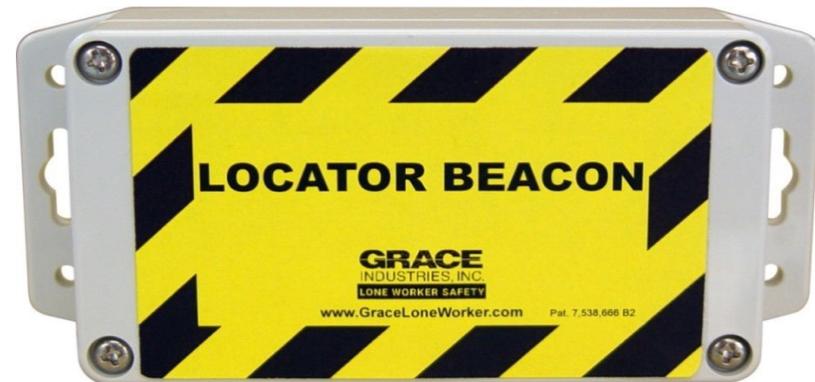
The Locator Beacon is available in two models:

LOC-H-L - Powered by a non-rechargeable lithium battery- the Beacon is designed to "ping" in the default setting of two messages every second for 3 years, when the battery reaches a low condition, a low battery beacon message is transmitted.

LOC-H-EP - Powered by an external wall mount power supply and non-rechargeable lithium battery back-up, the default setting will "ping" two messages every second.

There are user adjustable power and "ping" settings for custom

SEE PAGE 1 FOR LOCATOR BEACON PRICING



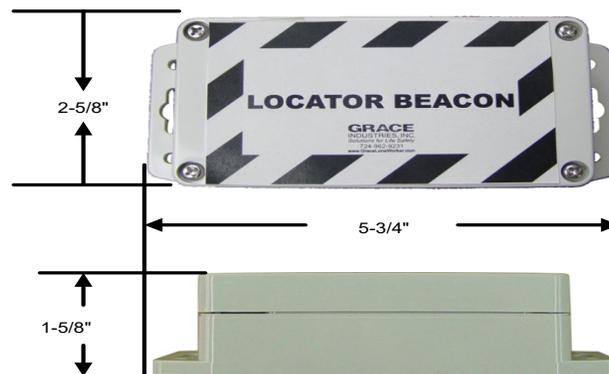
MORE ABOUT LOCATOR BEACONS

1. All environments are different. Prior to demonstrating or installing a system, it is strongly suggested to survey the location for placing the Locator Beacon. Use the SuperCell® in test mode to determine the level of RF transmit power required for each location. This process also requires an effort to properly survey the facility including interviewing the appropriate personnel as to what other radio equipment (particularly 902-928 MHz equipment) is present and in use at these locations. Remember, specific RF environments can change over time and all systems should be checked periodically to verify their

2. Installation points for Locator Beacons should be in areas that are away from other RF equipment and antennas. Avoid placing near light fixtures. Avoid placing Locator Beacons close together as this increases the possibility of cross-talk (a TPASS3 or SC500 receiving the location code from another Locator Beacon close by). Some Locator Beacons may require mounting to direct its RF transmit field in a direction away from an adjacent room or hallway where other Locators are present. Mounting Locators on a metal wall or ceiling is acceptable and may be helpful in reducing cross-talk.

3. Do not place Locator Beacons near Repeaters. The Locator Beacon's transmitted signal is not repeated by a repeater, however, if close enough, the Locator message will still be received by a Repeater causing it to act sluggish and prevent it from repeating other signals from worn devices.

4. The Locator Beacon is equipped with internal jumper power settings to increase or decrease the area in which you want the TPASSS® or SuperCELL® to receive the beacon ID. The minimum distance, at the lowest power setting, is about a ~60 feet radius of the Locator Beacon. This needs to be recognized in applications where overlap of beacon coverage could be an issue.





PORTABLE CONFINED SPACE SAFETY KIT - OSHA 1910.146

PORTABLE CONFINED SPACE SAFETY KIT



BUILD YOUR OWN KIT FROM THESE PRICE PAGES



Below has been extracted from OSHA Active Interpretations for use of electronic means to comply with OSHA 1910.146

https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&p_id=22495

[Standard Interpretations - Table of Contents](#) • **Standard Number: 1910.146** November 13, 1997

*The use of an electronic monitoring system is permitted by the standard. It is not intended to completely replace attendants, but to serve as an aid in the monitoring process. Its use does not automatically violate the standard, nor does it mean the employer is automatically in compliance with the standard. It is really a matter of **how** the device is used. Properly used, it can effectively increase the number of permit spaces a single attendant is able to effectively and simultaneously monitor. The use of such equipment can actually perform some of the attendant's duties better than the common practice of just having an attendant outside the space. Other duties, on the other hand, may need additional attendants to be properly satisfied.*

All the duties described in paragraph (i) of the standard must be effectively performed for each permit space being monitored. Each confined space must be evaluated by the employer to determine the hazards that could exist for the entrant. If the space cannot be adequately attended by using a remote attendant, then added precautions or procedures must be taken to protect the entrant. Some situations may require another person or additional equipment to perform one or more of the attendants duties. The Product Bulletin you sent us addresses several of the limitations a single attendant may face when monitoring more than one space.

Proper training of the attendant becomes even more critical with the use of such a system. The attendant must be totally familiar with the use of the system and indicators or alarms that may alert him of a problem in the confined spaces. When such a device is used in a confined space program, its use and limitations must also be included in the training of the entrant and entry supervisors and the program modified to cover how any limitations will be addressed.



Lone Worker Products Replacement Parts

\$USD

| | | | |
|------------------|--|--|--------------|
| ANT1 | TPASS®Antenna | 1 inch replacement antenna for use with TP3,LTX200,SC500 Radio G | \$29 |
| SMS-ANT | SMS-H Replacement Antenna | Replacement antenna for SMS-H --each price | \$33 |
| ANT-H-915 | Radio-H Replacement for LTX/SC500/TPASS3 | Replacement antenna for Radio-H LTX200,SC500,TPASS3 | \$33 |
| AKS2T3-R | Accountability Key TPASS® 3 and LTX200-Rechargeable | Accountability Key for use with TPASS 3 and LTX200- Rechargeable | \$29 |
| BPT3R-SS | TPASS®3 Back Plate Stainless Steel Grip-Clip | Back plate for TPASS3 Rechargeable - includes STAINLESS STEEL grip-clip and screws | \$40 |
| BPT3R | TPASS®3 Back Plate - Rechargeable | Back plate for TPASS3 Rechargeable - includes black grip-clip and screws | \$33 |
| BPLTXR-SS | LTX200 Back Plate Stainless Steel Grip-Clip | Back plate for LTX200 Rechargeable - includes STAINLESS STEEL grip-clip | \$40 |
| BPLTXR | LTX200-R Backplate - Rechargeable | Back plate for LTX200 Rechargeable - includes black grip-clip and screws | \$33 |
| BMS17 | T3 Repeater,MS2000,MS900 Series Battery - Factory Replacement | Replacement 12 Volt lead acid battery for MS900 and MS2000 series Base/receiver - Factory replacement only | \$244 |



GRACE WARRANTY

GRACE WARRANTY

Grace Industries, Inc. warrants your product to be free from defects in workmanship and materials for a period of one (1) year from the date of original purchase.

Grace Industries will repair or replace at Grace's option the entire product free of charge.

All warranty repairs require return authorization - prior to shipping, call or email for a RMA number. Returns without a proper RMA # will not be processed. Authorization request shall be sent to service@graceindustries.com

Send all returned merchandise, prepaid and accompanied by proof of purchase that states date and location of purchase to: Grace Industries Inc., 305 Bend Hill Road, Fredonia, PA 16124, U.S.A. Customer is responsible for return shipping, handling, and any other associated cost. The product is warranted providing that a defect in workmanship and materials or damage was not in part or in whole a result from repairs or parts replacement that were made or attempted by other than Grace Industries authorized personnel. GRACE INDUSTRIES, INC. SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE FAILURE OF THE PRODUCT TO OPERATE.

The sole and exclusive remedy under all guarantees or warranties, expressed or implied is strictly limited to the 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 (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE. The warranty and liability set forth in the prior paragraphs 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. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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