



GRACE INDUSTRIES

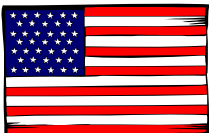
H-GAC EE08-19

Emergency Medical & Rescue
Equipment Catalog

US PRICE PAGES






Effective

7/1/2021 through 7/31/2022



HGACBuy

TPASS®5 - SUPERPASS®5X - TPASS®5GPS









	Description	Part Number	List Price Each
	NFPA Compliant Stand-Alone RF PASS TPASS®5 with GPS location used with In-Command® Full View GPS™ for Wildland Firefighting and Search & Rescue. Includes all the features and functions of the TPASS®5 plus the GPS mapping. GPS Model.	TP5-GPS	\$1,217
	NFPA Compliant Standalone RF PASS TPASS®5, with heat and motion alarm monitoring, used with In-Command® First-In and Full Crew Systems. Non-GPS Model.	TP5-H-A	\$1,106
	NFPA Compliant Standalone SuperPASS®5X, with heat and motion alarm monitoring. Field upgradeable to all of the features and functions of the RF TPASS®5 used with In-Command® First-In and Full Crew Systems. Stand-alone Cross-Over model - user field upgrade to RF PASS is \$330 each - Requires the S5T5DLC-1 Cable for up-grade. Non-GPS Model.	SP5X-H-A	\$739
Field Upgrade of SuperPass®5X to RF PASS. Requires a computer and internet connection for firmware download. Sale of field upgrade requires user to provide the serial number of each SuperPass®5X to be upgraded.		SP5X-T5FU	\$367
Data Log Download USB Cable used to download internal data logs of SuperPASS®5 series and to upgrade the 5X.		S5T5DLC-1	\$18.00
	T5 Replacement Accountability Key for PASS and Micro Repeater Adjustable 18"-36" Black	AKS5T5	\$30
	T5 Rehab Key Adjustable 18"-36" Orange	RKT5	\$36

- **NFPA1500 Compliant At All Times**
 - **"Regardless of whether SCBA is worn", Everyone must use PASS in the hazard area**
 - **NFPA1500 Compliant Even When SCBA is Removed**
 - **Can be moved from one piece of protective clothing to another**
 - **PASS is not just for IDLH Atmospheres**
- GET THE FACTS**

WWW.GRACEFIREFIGHTER.COM
WWW.GRACEWILDFIRE.COM
SALES@GRACEINDUSTRIES.COM
 724-962-9231



TPASS® MICROREPEATER, SUPERCCELL®500-IC, SC500®GPS AND MICROCELL® AES AND ERT

	Description	Part Number	List Price Each
	Intrinsically Safe Rechargeable Incident Commander with Outdoor GPS. Used to monitor panic and motion alarms from TPASS®5 and upgraded 5X. Capable of sending a global EVAC to all TPASS®5 and upgraded 5X. Transmits outdoor GPS location for display on In-Command® Full View GPS™.	SC500-IC-GPS-XX Designate AC or DC Power Supply	\$1,070
	Intrinsically Safe Rechargeable Incident Commander. Used to monitor panic and motion alarms from TPASS®5 and upgraded 5X. Capable of sending a global EVAC to all TPASS®5 and upgraded 5X.	SC500-H-IC-XX Designate AC or DC Power Adapter	\$948
	Intrinsically Safe Rechargeable Repeater. Used by the Fire Fighter to extend wireless coverage in large or dense structures. Expands signal range to several miles when affixed to a drone or UAV in wildland firefighting and SAR.	MREP-H-XX Designate AC or DC Power Adapter	\$948
	Replacement antenna for SC500 and Micro Repeater	ANT-1-H-91	\$31
	Infrared Wireless Programming Adapter and Software for all SC500. Required to load names into SC500.	USB-IRP	\$207
	Microcell® AES - Auto Polling identifies on-scene support personnel. Emergency distress button.	AES	\$483
	Microcell® ERT - Resource tag for on-scene vehicles, equipment and apparatus.	ERT	\$207
	In-Command® annual software updates and releases. (Optional)	SUMCIC	\$483

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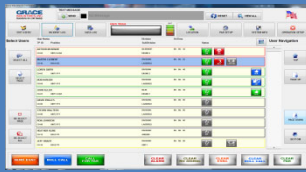


EMERGENCY SIGNALING AND AUTOMATED ACCOUNTABILITY SYSTEMS

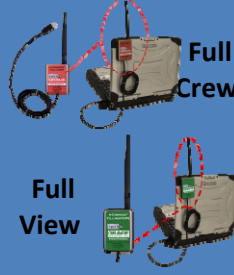
IN-COMMAND® FULL CREW OR IN-COMMAND® FULL VIEW GPS™



User Supplied
Win7/10 Computer



In-Command® Full
Crew or FullView
Software
(Win 7/10)



Full
Crew

Full
View

MX900-H
In-Command®
Monitor



-TPASS®5-GPS
-TPASS®5
-SuperPASS®5X w/ Upgrade
-SuperCELL® SC500-IC
-TPASS® MicroRepeater

Note: Purchase separately to
meet your needs

- In-Command® Full Crew and In-Command® Full View package are used with the TPASS®5 and Upgraded SuperPASS®5X.
- In-Command® Full Crew Package includes the MX900-H Full Crew Monitor and Full Crew Software package.
- In-Command® Full View is used with the new TPASS®5 GPS. Package includes the MX900-H Full View Monitor and Software package.
- Requires a user supplied Win 7/10 computer with available USB port. NFPA Compliant RF PASS Systems.

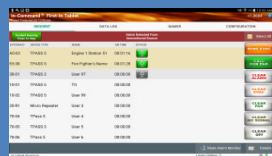
In-Command® Full Crew and In-Command® Full View GPS™ Part Numbers

NFPA Compliant RF PASS System	ICFS-H	\$4,061
Upgrade with Existing GRACE RF System	ICFS-HU	\$1,667

IN-COMMAND® FIRST-IN PACKAGE



User Supplied
Android Tablet



In-Command®
First-In
Tablet Application
for Android



WiFi Enabled
Portable Incident
Command Monitor



-TPASS®5
-SuperPASS®5X w/ Upgrade
-SuperCELL® SC500-IC
-TPASS® MicroRepeater

Note: Purchase separately to
meet your needs

- In-Command® First-In Package is used with the new TPASS®5 and Upgraded SuperPASS®5X. In-Command® First-In includes the WiFi enabled In-Command® Incident Command Monitor and In-Command® First-In Tablet Application for Android.
- Requires a user supplied Android Tablet.

In-Command® First-In Package Part Number

NFPA Compliant RF PASS System	45S-HWT	\$7,217
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Accessories

SC500 Accessories

Single Unit battery charger for SC500 with lithium-ion battery. Includes charging base and 120VAC or 12VDC power adapter. Specify AC or DC.	SC500SBC-XX	\$58
Single unit battery charger base without power adapter for SC500 with lithium-ion battery. Includes charging base only.	SC500SBCB	\$39
SC500 - 12VDC vehicle charging power adapter without charger base.	KC1A-12V	\$27
SC500 - 12VAC vehicle charging power adapter without charger base.	KC1A-120V	\$27
Multiple unit battery charger for 1-5 SC500s with lithium-ion battery. Includes charging base and 120VAC or 12VDC power adapter. Specify AC or DC	SC500MBC-5XX	\$188
Multiple unit battery charger for 1-10 SC500s with lithium-ion battery. Includes charging base and 120VAC or 12VDC power adapter. Specify AC or DC	SC500MBC-10XX	\$349
Replacement antenna for SC500	ANT-H-91	\$31
SC500 Replacement Battery. Factory replacement only of the SC500 intrinsically safe lithium-ion battery.	SC500RB	\$361

TPASS® Micro Repeater Accessories

Key-Charger Only. No power adapters.	KC1	\$61
Key-Charger with 12VDC vehicle power adapter with charger base.	KC1-12	\$61
Key-Charger with 120VAC wall power adapter with charger base.	KC1-120	\$27
12VDC vehicle power adapter. No Key-Charger.	KC1A-12V	\$27
120VAC wall power adapter. No Key-Charger. Converts to 12V at 500mA.	KC1A-120V	\$31
Replacement antenna for MREP-H Rechargeable Micro Repeater (Radio-H)	ANT-H-91	\$31
Multiple unit battery charger for 1-10 Micro Repeaters. Includes power supply for standard 120VAC power, mounting hole 16" on center.	RC1-T3R	\$629
Accountability Key for Rechargeable MREP-H-R (Radio-H)	AKS2T3-R	\$34

MX900-H Accessories

Replacement antenna for MX900 Full Crew or Full View Monitor	SMS-ANT	\$31
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Accessories & Replacement Parts for Legacy (Radio-G) Equipment

Replacement Antenna for use with TPASS® 4 and Micro Repeater (Radio-G)	ANT1	\$27
Replacement Antenna for WatchDog - each piece	WD-ANT	\$39
Accountability Key for TPASS® 4	AKS3T4	\$29
Rehab Key for TPASS® 4. Activates Rehab feature, 3 foot orange tether and banner.	RKT4	\$33
Stainless steel screws for TPASS® 4 battery cover - Bag of 20	S3T4SSS	\$7
Battery release strap for TPASS® 4	S3T4BRS9	\$2
TPASS® 4 stainless steel primary wire attachment	S3T4WC1	\$3
TPASS® 4 stainless steel secondary wire attachment	S3T4WC2	\$3
TPASS® 4 Silicone protective cover	SPCT4	\$40
WatchDog Replacement Battery. Factory replacement only of the WatchDog lead acid battery.	WDRB	\$276
WatchDog 120VAC wall plug power adapter	WDPA120V	\$27
WatchDog 12VDC vehicle power adapter	PA12V	\$27
Infrared wireless adapter for programming TPASS 4 and SC500	USB IRP	\$207

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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 their option the entire unit 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.

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 and handling. The product is warranted providing defect or damage was not due to repairs or parts replacement that were made or attempted by other than Grace Industries personnel.

GRACE INDUSTRIES, INC. SHALL NOT BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGE ARISING OUT OF THE FAILURE OF THE DEVICE TO OPERATE.

The sole and exclusive remedy under all guarantees or warranties, expressed or implied, 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 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.

Tele. 724-962-9231

sales@graceindustries.com

305 Bend Hill Road

Fredonia, PA 16124



2021 End User PRICE PAGES

Valid 7/1/2021 through 12/31/21

FIRE FIGHTER - PASS AND LIGHTING

MINING - LIGHTING and M-R-A

ARSON DETECTION

Pricing on Lighting Products

Arson-Scanner-Hydrocarbons



SuperPASS®5 and SuperPASS®5X NFPA Compliant Stand-Alone PASS



versus



SuperPASS®5 and SuperPASS®5X - What is the Difference?



SuperPASS®5 is a Stand-Alone PASS Alarm that replaces SuperPASS®2 and SuperPASS®3 PASS Alarms

MADE IN
USA



SuperPASS®5X is **MUCH MORE** than just an **Stand-Alone PASS** Alarm!

- * SuperPASS® 5 and 5X is NOW the primary PASS device for firefighters - the SCBA becomes a secondary back-up PASS. So that, even when the SCBA is removed, NFPA compliance is maintained during every firefighting operation, such as wildland, SAR, and Fire/Police personnel.
- * **Field Upgrade at Anytime** and the SuperPASS® 5X becomes an RF PASS for use with the Grace Fire Fighter In-Command® Emergency Signaling and Automated Accountability Systems.
- * **SuperPASS®5X** is used to solve two of the biggest issues identified in Line-of-Duty deaths
..... In-Command® is the tool that **Solves Problems Caused by Communication Breakdowns** and **Poor Firefighter Accountability**.

* Grace uses a very high performance unlicensed data radio spectrum that is **totally separate from your existing voice radio system** to conduct all incident command accountability monitoring and signaling.

* Because Grace Intelligent Accountability is conducted on its own separate system, it **freees up the radio voice channel for other time critical fire ground radio traffic**.

* A firefighter **does not have to rely on the voice radio channel** to send a MAYDAY. **When the MAYDAY is sent** using Grace In-Command®, the Incident Commander knows **immediately who is in MAYDAY** without confusing or competing radio traffic.

* A **PAR Check command can be performed in a matter of seconds** without ever having to key a radio microphone and a **firefighter's response is immediately displayed for the Incident Commander**.

* The traditional **PAR Check becomes much more** when the firefighter is trained in this manner:

Step 1. - Before the firefighter acknowledges the PAR command they are trained to first monitor, and **take mind of their own cylinder pressure**; this simple step forces the firefighter to serve an active role in their personal safety.

Step 2. - After **monitoring and understanding their own cylinder pressure**, they **acknowledge the PAR check by pressing the side buttons** on their Grace TPASS®

* Because the firefighter has made themselves aware of their own cylinder pressure, **the firefighter's PAR acknowledgement communicates to the Incident Commander that they are aware of their own pressure level and they are confirming their personal safety status**. Adding this simple step into the firefighter's training **brings deeper meaning to the use of the PAR Check**,

Field Upgrade the SuperPASS®5X AT ANY TIME - allows departments to spread the cost of an Accountability System purchase across budget cycles.

1. Purchase the SuperPASS®5X at \$739 and you have a stand-alone NFPA compliant PASS that keeps you in compliance with NFPA1500 at all times.
2. At anytime you can purchase the field upgrade for \$367 per device, and transform the SuperPASS®5X into a TPASS®5 - NFPA compliant RF PASS.
3. The field upgraded SuperPASS®5X can now be used with the NFPA compliant In-Command® First-In and In-Command® Full Crew Systems to enable Emergency Signaling and Automated Intelligent Accountability on the fireground.

SuperPASS®5 and SuperPASS®5X NFPA Compliant Stand-Alone PASS

SuperPASS® 5

STAND-ALONE PASS
NFPA COMPLIANT






SuperPASS® 5X STAND-ALONE PASS

~ *FIELD UPGRADEABLE* ~
TO NFPA COMPLIANT RF PASS
SP5X-H-A
\$739.00 MSRP
Field Upgrade to RF PASS*
\$367 each

* Available through In-Command® System



	SuperPASS®5 NFPA COMPLIANT	NFPA Compliant Intrinsically Safe PASS - 30 second Motion Timing - Temperature Sensing - Auto-On Activation - Ships with 3-Approved AA Batteries - Used as a PASS - (60 hours of operation 4-6 hours in Full Alarm) - Ships with AKS5T5 Accountability Key	SP5-H-A	\$550
	SuperPASS®5X NFPA COMPLIANT ~ FIELD UPGRADEABLE ~ TO NFPA RF PASS	NFPA Compliant Intrinsically Safe PASS and RF PASS* - 30 second Motion Timing - Temperature Sensing - Auto-On Activation - Ships with 3-Approved AA Batteries - Used as a PASS - (60 hours of operation 4-6 hours in Full Alarm) - Ships with AKS5T5 Accountability Key * User Field Upgradeable to RF PASS used with In-Comm and First-In and Full Crew Emergency Signaling and Automated Intelligent Accountability Systems (Field Upgrade to RF PASS for an additional \$330 each)	SP5X-H-A	\$739
	Data Download Cable	Data Log Download USB Cable used to download internal data logs of SuperPASS®5 series and to upgrade the 5X.	S5T5DLC-1	\$19

**MADE IN
USA**

LITE TRACKER® - All Models Ship with 2 - AAA Alkaline Batteries - XX-Specify Clip Style

 GC-Grip Clip - Add \$0	Lite Tracker Demonstration Images		G Series	LITE TRACKER - G Series-	Lens Color	LED Color	Pattern	XX-Specify Clip Style	
			Lite Tracker G	Flash only 3-amber LEDs - ≥160 hours of operation	Green	Amber	Flash Only	LTG-XX	\$47
			Lite Tracker G1	Flash only 3-red LEDs - ≥160 hours of operation	Red	Red	Flash Only	LTG1-XX	\$47
			Lite Tracker G2	Flash only 3-green LEDs - ≥96 hours of operation	White	Green	Flash Only	LTG2-XX	\$47
 MG-Magnetic - Add \$7			Lite Tracker G3	Flash only 3-blue LEDs - ≥96 hours of operation	White	Blue	Flash Only	LTG3-XX	\$47
			LITE TRACKER - 2000 Series		Lens Color	LED Color	Pattern		
			Lite Tracker 2004	2-Red, 1-blue LED - ≥50 hours of operation	White	Red/Blue/Red	Alternating	LT2004-XX	\$54
			Lite Tracker 2005	2-Red, 1-blue LED (StarBurst) - ≥40 hours	White	Red/Blue/Red	Starburst	LT2005-XX	\$54
 SC-Swivel Clip - Add \$7			Lite Tracker 2006	1-Red, 1-white, 1-blue LED (All American) - ≥50 hours	White	Red/White/Blue	Alternating	LT2006-XX	\$54
			Lite Tracker 2008	3-Red LEDs - glow, flash or strobe - ≥160 hours	Red	Red	Glow/Flash/Strobe	LT2008-XX	\$54
			Lite Tracker 2009	3-Amber LEDs - glow, flash or strobe - ≥160 hours	Amber	Amber	Glow/Flash/Strobe	LT2009-XX	\$54
			Lite Tracker 2012	3-Green LEDs - glow, flash or strobe - ≥96 hours	White	Green	Glow/Flash/Strobe	LT2012-XX	\$54
 FC-Flex Clip - Add \$0			Lite Tracker 2013	3-Blue LEDs - glow, flash or strobe - ≥96 hours	White	Blue	Glow/Flash/Strobe	LT2013-XX	\$54
			Lite Tracker 2018	3-White LEDs - glow, flash or strobe - ≥96 hours	White	White	Glow/Flash/Strobe	LT2018-XX	\$54
			Lite Tracker 2016A	Water activated, Coast Guard compliant, 3-amber LEDs - ≥96 hours of operation - Used for Surface Diving	Amber	Amber	Flash Only	LT2016A-XX	\$62
			Lite Tracker 2017AD	Push button, Coast Guard compliant, 3-amber LEDs - ≥96 hours of operation - Used for Deep Diving - 100 Feet	Amber	Amber	Flash Only	LT2017AD-XX	\$62
XX-Specify Clip Style GC/MG/SC/FC MADE IN USA			Lite Tracker 2017AS	Push button, Coast Guard compliant, 3-amber LEDs - ≥96 hours of operation - Used for Surface Diving	Amber	Amber	Flash Only	LT2017AS-XX	\$62
			MSHA Certified	LITE TRACKER - MSHA CERTIFIED	Lens Color	LED Color	Pattern		
			Lite Tracker 2000 M	Flash only 3-amber LEDs - ≥160 hours of operation	Green	Amber	Flash Only	2000M-XX	\$62
			Lite Tracker 2001 M	Flash only 3-red LEDs - ≥160 hours of operation	Red	Red	Flash Only	2001M-XX	\$62
			Lite Tracker 2002 M	Flash only 3-green LEDs - ≥96 hours of operation	White	Green	Flash Only	2002M-XX	\$62
			Lite Tracker 2003 M	Flash only 3-blue LEDs - ≥96 hours of operation	White	Blue	Flash Only	2003M-XX	\$62
			Lite Tracker 2004 M	2-Red, 1-blue LED produce an alternating pattern - ≥50 hours	White	Red/Blue/Red	Alternating	2004M-XX	\$62
			Lite Tracker 2005 M	2-Red, 1-blue LED produce a flash and pulse pattern - ≥40 hours	White	Red/Blue/Red	Flash/Pulse	2005M-XX	\$62
			Lite Tracker 2006 M	1-Red, 1-white, 1-blue LED produce an alternating pattern - ≥50 hours of operation	White	Red/White/Blue	Alternating	2006M-XX	\$62
			Lite Tracker 2008 M	3-Red LEDs - glow, flash or strobe - ≥160 hours	Red	Red	Glow/Flash/Strobe	2008M-XX	\$62
			Lite Tracker 2009 M	3-Amber LEDs - glow, flash or strobe - ≥160 hours	Green	Amber	Glow/Flash/Strobe	2009M-XX	\$62
			Lite Tracker 2012 M	3-Green LEDs - glow, flash or strobe - ≥96 hours	White	Green	Glow/Flash/Strobe	2012M-XX	\$62
			Lite Tracker 2013M	3-Blue LEDs - glow, flash or strobe - ≥96 hours	White	Blue	Glow/Flash/Strobe	2013M-XX	\$62
			Lite Tracker 2018M	3-White LEDs - glow, flash or strobe - ≥96 hours	White	White	Glow/Flash/Strobe	2018M-XX	\$62
			Lite Tracker 2013 M	3-Blue LEDs - glow, flash or strobe- ≥96 hours	White	Blue	Glow/Flash/Strobe	2013M-XX	\$62
		Lite Tracker 2018 M	3-White LEDs - glow, flash or strobe- ≥96 hours	White	White	Glow/Flash/Strobe	2018M-XX	\$62	
 HELMET BAND			Helmet Band	Use with miner's safety cap or any standard safety helmet				LTHB-1	\$5

LANDING ZONE KIT and Flare Lites®



The kit includes – 4 Red Flare Lites, 1 Blue Flare Lite, 2 Glow Baton Marshalling Wands, 7 Heavy Duty Rubber Stand-up Bases, a rugged and highly visible nylon tote for easy storage and transport plus laminated Helicopter Landing Zone set-up instructions. (All lights are Flameless LED).

LANDING ZONE KIT	ELZ-K1	\$388.00
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Flare Lites®



8 blue and 1 white LED and can produce glow or flash patterns with blue, and glow only with white. Up to 24 hours in color glow or flash - 72 hours glow white.	FL-BW	\$47
8 red and 1 white LED and can produce glow or flash patterns with red, and glow only with white Up to 24 hours in color glow or flash - 72 hours glow white.	FL-RW	\$47
Heavy Duty Rubber Stand Up Base for Glow Baton and Flare Lite - (Order Separately) - Used with all Glow Baton or Flare Lite Models.	GBASE	\$10

GBASE






GLOW BATON® - All Models Ship with (2) C-Cell Alkaline Batteries

	GLOW-FLASH-STROBE~MULTI-COLOR			GLOW-FLASH-STROBE~MULTI-COLOR		LED Color	Tube Color	Pattern	Model	
	Red	Glow Baton 100HD	Red LEDs glow, flash and strobe with red tube-HEAVY DUTY - uses (2) C-Cells - 144 Flash/Strobe Mode - 72 hours Glow Mode	Red	Red	Glow/Flash/Strobe	GB100HD	\$39		
	Red and Green	Glow Baton 400HD	Red and green LEDs glow, flash and strobe with white tube-HEAVY DUTY - uses (2) C-Cells - 144 Flash/Strobe Mode - 72 hours Glow Mode	Red/Green	White	Glow/Flash/Strobe	GB400	\$46		
	Red, Green, and Blue	Glow Baton 500HD	Red, Green and Blue LEDs glow, flash and strobe with white tube -HEAVY DUTY - uses (2) C-Cells - 144 Flash/Strobe Mode - 72 hours Glow Mode	Red/Blue/Green	White	Glow/Flash/Strobe	GB500	\$51		
	GLOW ONLY ~SINGLE COLOR			GLOW ONLY ~SINGLE COLOR		LED Color	Tube Color	Pattern	Model	
	Red	Glow Baton GR	Glow Only Red LEDs with red tube-HEAVY DUTY R - uses (2) C-Cells - 72 hours Glow Mode	Red	Red	Glow Only	GB100-G-R	\$39		
	Blue	Glow Baton GB	Glow Only Blue LEDs with white tube - HEAVY DUTY - uses (2) C-Cells - 72 hours Glow Mode	Blue	White	Glow Only	GB100-G-B	\$39		
	Green	Glow Baton GG	Glow Only Green LEDs with white tube -HEAVY DUTY - uses (2) C-Cells - 72 hours Glow Mode	Green	White	Glow Only	GB100-G-G	\$39		
	Amber	Glow Baton GA	Glow Only Amber LEDs with yellow tube - uses (2) C-Cells - 72 hours Glow Mode	White	Yellow	Glow Only	GB100-G-A	\$46		
	GLOW ONLY~MULTI-COLOR			GLOW ONLY~ TWO-COLOR		LED Color	Tube Color	Pattern	Model	
	Red and Green	Glow Baton GRG	Glow Only Red and Green LEDs with white tube - uses (2) C-Cells - 72 hours Glow Mode	Red/Green	White	Glow Only	GB-G-R-G	\$51		



GLOW ONLY~MULTI-COLOR			GLOW ONLY ~ THREE COLOR		LED Color	Tube Color	Pattern	Model	
Green, Amber, and Red	Glow Baton GB300	Green, Amber and Red LEDs glow only with white tube - uses (2) C-Cells - 72 hours Glow Mode	Green/Amber/Red	White	Glow Only	GB300	\$51		

GLOW BATON ACCESSORIES				
		Magnetic Screw-On Base for Glow Baton® Used with all models. (Glow Baton® is ordered separately)	GBMAG	\$7
		Heavy Duty Rubber Stand Up Base For use with all models of Glow Baton® and Flare Lite® (Glow Baton® and Flare Lite® is ordered separately)	GBBASE	\$10

NFPA COMPLIANT PASS and MSHA Mine Rescue Alarms




	SuperPASS®5 NFPA COMPLIANT	NFPA Compliant Intrinsically Safe PASS - 30 second Motion Timing - Temperature Sensing - Auto-On Activation - Ships with 3-Approved AA Batteries - Used as a PASS - (60 hours of operation 4-6 hours in Full Alarm) - Ships with AKS5T5 Accountability Key	SP5-H-A	\$550
	SuperPASS®5X NFPA COMPLIANT ~ FIELD UPGRADEABLE ~ TO NFPA RF PASS	NFPA Compliant Intrinsically Safe PASS and RF PASS* - 30 second Motion Timing - Temperature Sensing - Auto-On Activation - Ships with 3-Approved AA Batteries - Used as a PASS- (60 hours of operation 4-6 hours in Full Alarm) - Ships with AKS5T5 Accountability Key * User Field Upgradeable to RF PASS used with In-Command First-In and Full Crew Emergency Signaling and Automated Intelligent Accountability Systems (Field Upgrade to RF PASS for an additional \$330 each)	SP5X-H-A	\$739
	Data Download Cable	Data Log Download USB Cable used to download internal data logs of SuperPASS®5 series and to upgrade the 5X.	S5T5DLC-1	\$19

M-R-A® MINE RESCUE ALARM



	M-R-A® Mine Rescue	MSHA Approved, auto on activation motion and temperature sensing - 40 hours of use - 4-6 hours in full alarm	MRA-A-H		\$243
	M-R-A® Mine Rescue	MSHA Approved, manual activation motion and temperature sensing - 40 hours of use - 4-6 hours in full alarm	MRA-MAN-H		\$243
	M-R-A® Mine Rescue	MSHA Approved, auto on activation, motion sensing only - 40 hours of use - 4-6 hours in full alarm	MRA-A-M		\$231
	M-R-A® Mine Rescue	MSHA Approved, manual activation, motion sensing only - 40 hours of use - 4-6 hours in full alarm	MRA-MAN-M		\$231
	M-R-A® Mine Rescue	MSHA Approved Audio Beacon Alarm manual activation no motion sensing - 72 hour in Full Alarm Operation	MRA-MAN-AB		\$197

Super PASS® 2 & 3 & 5


REPLACEMENT PARTS

 SuperPASS 2  SuperPASS 3  SuperPASS 5	SuperPASS® 2 Accountability Key	For use with SP2, TP2, TP3 and Mine Rescue	AKS2T3		\$24
	SuperPASS® 3 Accountability Key	For use with SP3 and TP4	AKS3T4		\$24
	SuperPASS® 5 Accountability Key	For use with SuperPASS 5-SuperPASS 5X	AKS5T5		\$26
	SuperPASS® 5/5X Back Plate	Silicon overmolded back with multi-position heavy duty Stainless Steel Grip Clip (includes 4 screws)	BPS5T5		\$39
	SuperPASS® 5/5X Data Cable	Use for clock reset and data log downloads	S5T5DLC-1		\$19
	SuperPASS®2 Back Plate	Back Plate for SP2 includes grip clip (includes 4 screws)	BPS2		\$30
	M-R-A® Back Plate	Back Plate for Mine Rescue includes grip clip (includes 4 screws)	BPMRA		\$30
	SuperPASS®3 Battery cover S3T4	Battery cover for SP3 includes O-ring (includes 4 screws)	BCS3T4		\$28
	SuperPASS®3 Viton O-ring	Replacement O-ring for SP3	S3T4OR		\$2
	SuperPASS®2 Screws	Stainless steel screws for SP2 battery cover	S2T3SSS		Bag of 20 \$7.00
	SuperPASS®3 Screws	Stainless steel screws for SP3 battery cover	S3T4SSS		Bag of 20 \$7.00
	SuperPASS®3 Battery Release	Battery release strap for SP3	S3T4BRS1		\$2
	SuperPASS®3 Wire Clip	Replacement attachment clip for SP3	S3T4WC1		\$3
	SuperPASS®3 Alternate Wire Clip	Secondary wire attachment clip for SP3 - alternate attachment	S3T4WC2		\$3
	SuperPASS®3 Protective Cover	Replacement silicone protective cover for SP3	SPCS3		\$40

Arson Investigation and Gas Detection Equipment

	<p>NEW</p> <p>Model 950-ASH Non-Calibrated</p>	<p>Arson - Scanner - Hydrocarbons - New Advanced Redesign of our Best Seller - Metered, Noncalibrated, Purge, Rechargeable, with Mute - For Detection of Hydrocarbons, Accelerants, Petroleum Volatiles and Various Gases. A ruggedly constructed gas detection and field survey tool; will detect the presence of hydrocarbons that may be present at a fire scene and is equally effective as a general purpose gas detector. Includes new selectable UV light and White Light (end-of-probe) useful as an enhanced investigation tool. New USB Rechargeable with Low Battery Indicator.</p>	<p>M950-ASH</p>	<p>\$1,828</p>
	<p>Model C Non-Calibrated</p>	<p>Multi-purpose gas & hydrocarbon detector, rechargeable, mute, purge used to detect trace amounts of hydrocarbons.</p>	<p>MC</p>	<p>\$972</p>

Gas Detection Accessories

	<p>Probe</p>	<p>Telescoping Probe for models C</p>	<p>G-TPC</p>	<p>G-TPC</p>	<p>\$98</p>
	<p>Model C Vehicle Charger</p>	<p>12VDC vehicle charger for Model C</p>	<p>G-U12VDC</p>	<p>G-U12VDC</p>	<p>\$43</p>
	<p>Model C Charger - 120VAC</p>	<p>120VAC charger for use with models C & C+, 6 volts @ 200Ma</p>	<p>G-C-120VAC</p>	<p>G-C-120VAC</p>	<p>\$24</p>
	<p>950-ASH Charger - 12VDC</p>	<p>12 VDC charger - and USB cable</p>	<p>G-WF950-12VDC</p>	<p>G-WF950-12VDC</p>	<p>\$39</p>
	<p>950-ASH Charger - 120VAC</p>	<p>120VAC USB cable and power adapter</p>	<p>G-WF950-120VAC</p>	<p>G-WF950-120VAC</p>	<p>\$32</p>
	<p>Sensor</p>	<p>Replacement sensor for models C and 950-ASH</p>	<p>G- SU</p>	<p>G- SU</p>	<p>\$147</p>

Grace Industries line of portable gas & hydrocarbon detection instruments are not to be used as absolute measuring devices and should only be used as a tool to aid in pinpointing suspect areas of concern.

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.

Grace Industries, Inc.

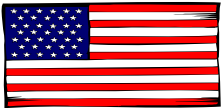
724-962-9231

305 Bend Hill Road

Fredonia, PA 16124

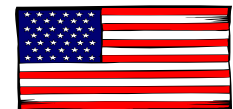
service@graceindustries.com





Grace Industries

H-GAC EE08-19













MAN-DOWN RESCUE SYSTEMS

Effective through 7/31/2022

HGACBuy

Grace-Watch® Advanced Safety Monitoring System

 Computer	Includes MX900-H Monitor and Grace-Watch Software <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 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- 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	\$4,020
OPTIONAL - Grace-Watch Software Release Agreement (yearly)			SUMCGW	\$435
SMS SERIES - Advanced Safety Monitoring System				
	Safety Monitoring System for use with TPASS®3, SC500, and WorkForce® <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	\$6,350
	T3 Remote Enhanced Transceiver - for use with SMS-H Systems	External transceiver for use with SMS-H for enhanced signal reception and propagation, 100 ft of cable connected to the SMS-H.	T3RET-H	\$1,609
 	T3 Remote Enhanced Tranceiver - Heated - for use with SMS-H Use below < 32°F/0°C	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	\$1,927
	Replacement Cable	100 foot replacement cable for T3 remote enhanced transceiver	T3RET-C-100	\$306
	LOCATOR BEACON - Battery Powered	Locator Beacon with lithium-ion battery	LT100-H-L	\$244
	LOCATOR BEACON - External AC	Locator Beacon with external power supply	LT100-H-EP	\$281
	Replacement Battery	Lithium-ion replacement battery for Locator Beacon - LT100-H-L- field replacement	LT100RB-H	\$29
	Automatic Telephone Dialer for use with all base receiver configurations.	User recorded voice message and can dial up to 8 telephone numbers sequentially	ATD	\$506
	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	\$188
	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	\$432

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

\$2,117

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

\$2,609

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

\$3,553

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.

NEW

-\$50

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



\$318

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

\$183



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

\$483



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

\$71

How to Order the MS2000X

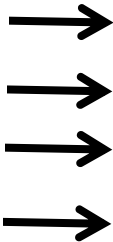
MS2000X Part Number Configurator

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

Select Base Pricing from Price List and use add/delete Options to configure a part number.						
	Select -AC- 120 VAC or -DC- 16 VDC	Select -B- Battery Back-Up or -N- No Battery Back-Up	Select -LS- Light & Siren or -NN- No Light & Siren	Select -HI- Heater Option Use in environments below 32°F/0°C Add \$286	NEW DELETE OPTION - Remove the -D- External I/O Jack Option from the new standard part number to remove the External I/O Jack. DEDUCT (-\$50)	Select -SP- Special Custom Option Input/Output * See the Page 7 Add \$165
Select "-XX-" →→	-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

OPTION-DESIGNATED INPUTS	All Models MS2000X		<u>Command Type</u> - PANIC - EVAC - CANNED MSG - FF MSG	<u>Delay Time</u> Seconds 0-255	<u>Input Type- OTA - Over The Air</u> • One-Shot • Non-Latched Repeating Message • Latched Repeating • Latched Repeating (Clear On Input Toggle) • Latch can be cleared through OTA RX User Selectable Message	<u>Over The Air OTA</u> OTA TX Repeat Message Timer 0-65,000 Seconds
	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

-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.

	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)

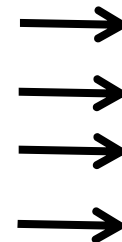
OUTPUT Settings - Shipped with default if part number has not been designated with -SP and accompanied with I/O Worksheet

Radio H All Models MS2000X		Trigger Event	Output Delay Timer Seconds	Toggle Timer	Output Type OTA - Over The Air	Activation Time
POWER C RELAYS EA 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 Configuration 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



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



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.**

Signal repeater 120VAC with 48 hour battery backup for increased signal propagation in hard to reach areas. Includes PM2040 Pole Mount Bracket

T3REP-H

\$2,237

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**

Signal repeater 120VAC with 48 hour battery backup with heat option.
- Rated to -30°C/-22°F
- Includes PM2040 Pole Mount Bracket

T3REP-H-HT

\$2,554



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.

G-PWSA-H-1

\$3,666



TPASS Micro Repeater-Rechargeable

Portable Micro Repeater - Rechargeable for temporary use with Portable Worksite Alarm Only - Sold Only with the Portable Work Site Alarm

MREP-H-R

\$1,033

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	\$1,033
Two-Way signaling intrinsically safe Rechargeable with Motion sensing only and Manual Activation	TP3-H-R-M-MAN- xxx-xx	\$1,033
Two-Way signaling intrinsically safe Rechargeable with motion sensing only - AM-Alarm Monitoring - Auto-On Activation	TP3-H-R-AM-M-A- xxx-xx	\$1,033
Two-Way signaling intrinsically safe Rechargeable with motion sensing only - AM-Alarm Monitoring - Manual Activation	TP3-H-R-AM-M-MAN- xxx-xx	\$1,033

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	\$52
KC1-12	Key-Charger with 12VDC vehicle power adapter	\$61
KC1-120	Key-Charger with 120VAC wall power adapter	\$61
KC1A-12V	12VDC vehicle power adapter for TPASS 3-R, LTX200-R and SC500	\$27
KC1A 120V	120VAC Wall Power Adapter for TPASS 3-R, LTX200-R and SC500 converts to 12V at 500mA	\$27
KC1A-INT	International Wall Power Adapter for TPASS 3-R, LTX200-R and SC500 converts to 12V at 500mA	\$39
ANT-H-91	Replacement Antenna	\$31
RC1-T3R-5	Rack Charger holds 1 - 5 LTX200 or TPASS3 rechargeable units, includes power supply for standard 120VAC power.	\$569
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	\$629

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

\$1,067

Supervisor's Model

see features matrix

SC500-H-SM-xx

\$1,067

Confined Space Kit Model

see features matrix

SC500-H-CS-xx

\$1,067



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

\$1,194

Supervisor's[†] GPS Model

see features matrix

SC500-H-SM-GPS-xx

\$1,194

Confined Space[†] GPS Model

see features matrix

SC500-H-CS-GPS-xx

\$1,194

SC500-H GPS and Non-GPS FEATURE MATRIX

	<div> <div>NEW</div> <div> Confined Space SC500-H-CS SC500-H-CS-GPS </div> </div>	The Kit Model	<div> <div>NEW</div> <div> Supervisor Model SC500-H-SM SC500-H-SM-GPS </div> </div>	<div> <div>NEW</div> <div> Lone Worker SC500-H-LW SC500-H-LW-GPS </div> </div>
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	\$58
SC500 Battery Charger Base without Power Adapter	Single unit battery charger base for SC500 with lithium-ion battery, includes charging base only	SC500SBCB	\$39
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	\$27
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	\$27
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	\$188
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	\$349
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	\$39
Replacement Antenna - Radio-H 915 MHz - For Use in North America	Replacement antenna - SC500/TPASS3/LTX200	ANT1-H-91	\$31
ACTiSYS IR Programmer	Infrared Wireless Programming Adapter and Software for SC500 (Name and Locator Name Database Programming)	USB IRP	\$217
SC500 Replacement Battery	Intrinsically safe lithium-ion replacement battery for SC500, factory replacement only	SC500RB	\$361
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	\$19

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	\$ 764
WF1-LW-AM-090-xx	\$ 764
WF1-LW-GPS-090-xx	\$ 826
WF1-LW-AM-GPS-090-xx	\$ 826
WF1-SM-090-xx	\$ 764
WF1-SM-AM-090-xx	\$ 764
WF1-SM-GPS-090-xx	\$ 826
WF1-SM-AM-GPS-090-xx	\$ 826



- ✓ 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	\$ 911
WF2-CS-090-xx	\$ 911
WF2-SM-090-xx	\$ 911
WF2-LW-GPS-090-xx	\$ 972
WF2-CS-GPS-090-xx	\$ 972
WF2-SM-GPS-090-xx	\$ 972

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

FACTORY DEFAULT 00 Second Motion Timing Motion Timing is set to {000} 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 Default Alarm Monitoring of all devices	GPS Outdoor Location Used with Grace- Watch® Mapping						
	Default Auto-On	Default Motion-On	Default Top Button EVAC			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 -AC 120VAC - Wall Charger -DC 12 VDC - Vehicular -IC International Voltage	FACTORY DEFAULT 90-Second Motion Timing - Motion Timing is set to (90) 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 the user is not in full alarm. If in full alarm, the user must press the two side buttons to reset the alarm. Motion time settings 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.

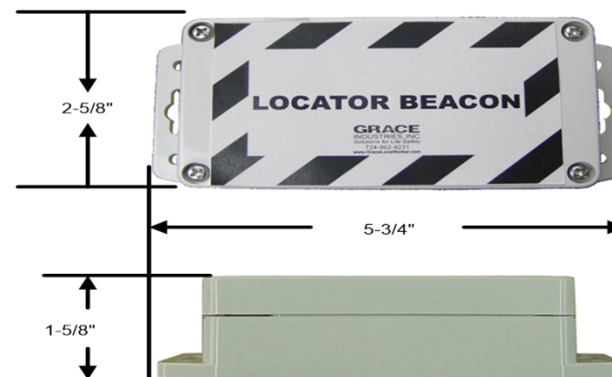
There are user adjustable power and "ping" settings for custom

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



BUILD YOUR OWN KIT FROM THESE PRICE PAGES

NEW

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



Lone Worker Products Replacement Parts

\$USD

ANT1	TPASS®Antenna	1 inch replacement antenna for use with TP3,LTX200,SC500 Radio G	\$27
SMS-ANT	SMS-H Replacement Antenna	Replacement antenna for SMS-H --each price	\$31
ANT-H-915	Radio-H Replacement for LTX/SC500/TPASS3	Replacement antenna for Radio-H LTX200,SC500,TPASS3	\$31
AKS2T3-R	Accountability Key TPASS® 3 and LTX200- Rechargeable	Accountability Key for use with TPASS 3 and LTX200- Rechargeable	\$27
BPT3R-SS	TPASS®3 Back Plate Stainless Steel Grip-Clip	Back plate for TPASS3 Rechargeable - includes STAINLESS STEEL grip-clip and screws	\$37
BPT3R	TPASS®3 Back Plate - Rechargeable	Back plate for TPASS3 Rechargeable - includes black grip-clip and screws	\$31
BPLTXR-SS	LTX200 Back Plate Stainless Steel Grip-Clip	Back plate for LTX200 Rechargeable - includes STAINLESS STEEL grip-clip	\$37
BPLTXR	LTX200-R Backplate - Rechargeable	Back plate for LTX200 Rechargeable - includes black grip-clip and screws	\$31
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	\$227



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 defect in workmanship and materials or damage was not, in part or in whole 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.
Grace Industries, Inc.

