

FIREFIGHTER SAFETY

EMERGENCY SIGNALING TO AUTOMATED ACCOUNTABILITY

NFPA COMPLIANT
STAND-ALONE PASS
NO SCBA REQUIRED

NFPA COMPLIANT
UPGRADEABLE CROSSOVER
FROM SUPERPASS® TO TPASS®

NFPA COMPLIANT
STAND-ALONE RF PASS
ELIMINATES RADIO VOICE PAR



GRACE
INDUSTRIES, INC.
FireFighter

MADE IN
USA

IN-COMMAND® FULL CREW

ACCOUNTABILITY • MAYDAY • EVACUATION • PAR

HIGHEST PERFORMANCE IN-BUILDING PENETRATION



TPASS® Micro Repeater



SC500-IC



CUSTOMER SUPPLIED PC With In-Command®



MX900-H FULL CREW MONITOR



TPASS® 5



IN-COMMAND® FULL CREW

NO MORE TIME CONSUMING RADIO VOICE PAR

IN-COMMAND® FULL CREW MONITOR AND IN-COMMAND® FULL CREW SOFTWARE



- AUTOMATED PAR CHECK - REDUCES RADIO VOICE TRAFFIC
- AUTOMATED RF PERSONNEL ACCOUNTABILITY
- MAYDAY DISTRESS ALARM MONITORING
- EMERGENCY EVACUATION SIGNALING - INDIVIDUALS, GROUPS, OR ALL FIREFIGHTERS
- AUTOMATED PAR AND ROLL-CALL SIGNALING AND MONITORING
- LARGE RED FLASHING ALARM BANNER SHOWS FIREFIGHTER IN DISTRESS
- PRIORITIZED STATUS - COLOR CODED GROUPING OF SPECIAL TEAMS
- COMPLIANT TO NFPA 1982, 2013 EDITION REQUIREMENTS FOR RF PASS
- SYSTEM CAPABLE OF MONITORING OVER 25,000 IDENTITIES
- DISPLAYS PANIC & NO-MOTION DISTRESS ALARMS, BATTERY LEVEL, REHAB STATUS
- COMPLETE LIST OF ALL ACTIVE FIREFIGHTERS ON SCENE
- AUTOMATIC DATA-LOGGING FOR POST-INCIDENT ANALYSIS
- TOUCH SCREEN COMPATIBILITY
- * CUSTOMER SUPPLIED PC OR WINDOWS TABLET

“EVERYONE COUNTS AT THE END OF THE TOUR”



IN-COMMAND® FIRST-IN TABLET

EMERGENCY SIGNALING ACCOUNTABILITY SYSTEM

EVERYTHING MATTERS • TIME IS CRITICAL
THIS IS YOUR 45 SECOND ACCOUNTABILITY SYSTEM



3 STEPS TO 45 SECOND ACCOUNTABILITY

STEP 1: ACTIVATE INCIDENT
ALARM MONITOR

STEP 2: ACTIVATE FIRST-IN
TABLET

STEP 3: SYSTEM ACTIVE IN
45 SECONDS



TPASS® Micro REPEATER



SC500-IC



INCIDENT ALARM MONITOR



TPASS® 5

HIGHEST PERFORMANCE IN-BUILDING RF PENETRATION



IN-COMMAND® FIRST-IN TABLET

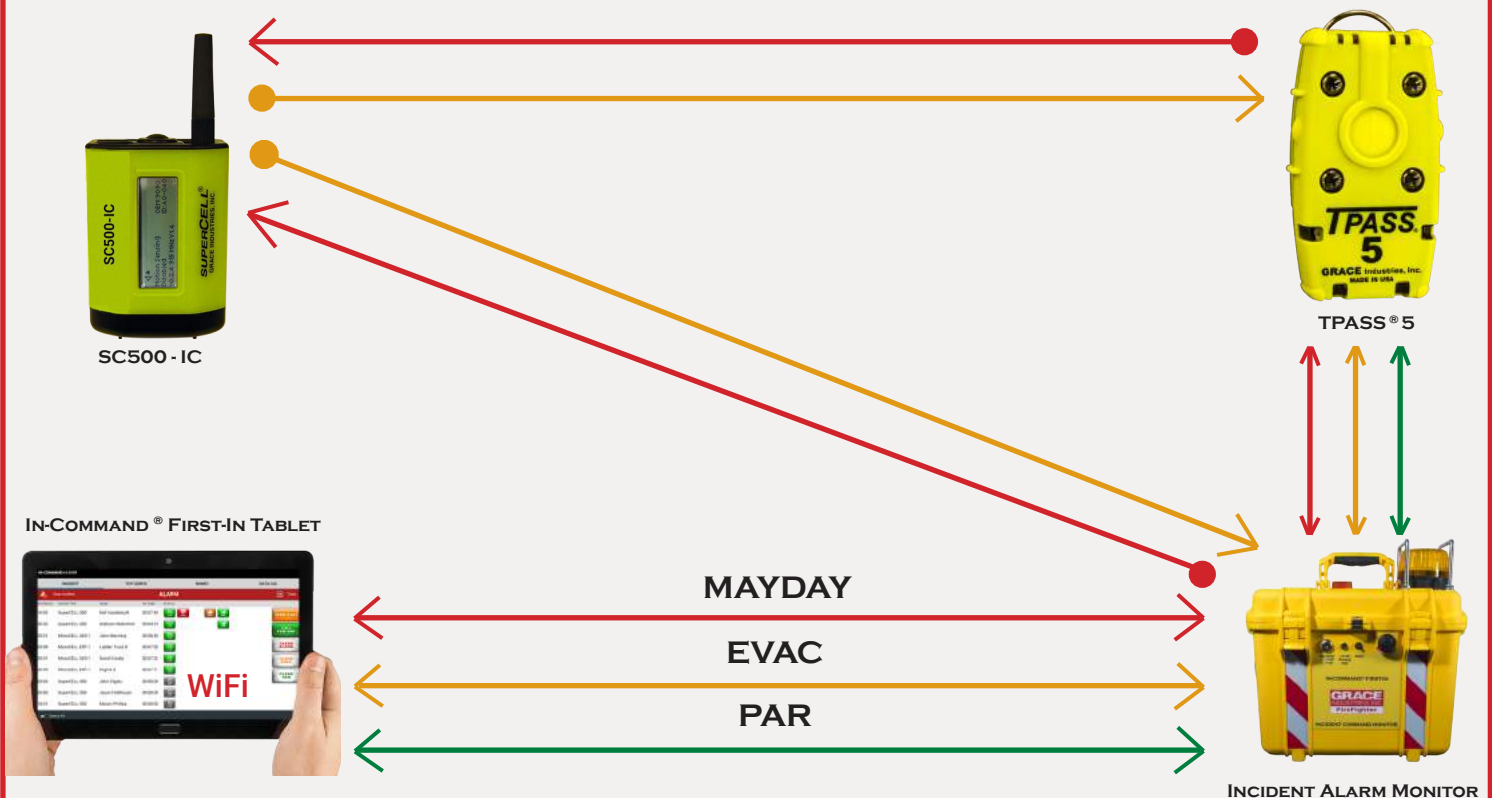
45 SECOND FIRST-IN ACCOUNTABILITY SYSTEM

- AUTOMATED PERSONNEL ACCOUNTABILITY - REDUCES RADIO VOICE TRAFFIC
- MAYDAY DISTRESS ALARM MONITORING
- EMERGENCY EVACUATION SIGNALING - SINGLE, MULTIPLE, OR ALL FIREFIGHTERS
- LARGE RED FLASHING ALARM BANNER SHOWS FIREFIGHTER IN DISTRESS
- COMPLIANT TO NFPA 1982, 2013 EDITION REQUIREMENTS FOR RF PASS
- DISPLAYS PANIC AND NO-MOTION DISTRESS ALARMS, BATTERY LEVEL, REHAB STATUS
- COMPLETE LIST OF ALL ACTIVE PERSONNEL ON SCENE
- AUTOMATIC DATA-LOGGING FOR POST-INCIDENT ANALYSIS
- * CUSTOMER SUPPLIED ANDROID TABLET



IN-COMMAND® FIRST-IN TABLET

MAYDAY • EVACUATION • PAR



TPASS[®] 5

NFPA COMPLIANT STAND-ALONE RF PASS

MAYDAY • EVACUATION • PAR • ACCOUNTABILITY

NFPA COMPLIANT
PROTECT ALL PERSONNEL
No SCBA REQUIRED



ACTUAL SIZE



HIGHEST PERFORMANCE IN-BUILDING RF PENETRATION

GRACE
INDUSTRIES, INC.
FireFighter

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**MADE IN
USA**

TPASS® 5

NFPA COMPLIANT STAND-ALONE RF PASS • IN-COMMAND®

MAYDAY • EVACUATION • PAR • ACCOUNTABILITY



TPASS®5 PROVIDES AN IMPROVED LEVEL OF SAFETY FOR FIREFIGHTERS

- EMERGENCY RF SIGNALING WITH OR WITHOUT SCBA
- MAYDAY RF SIGNALING
- EMERGENCY FIREFIGHTER EVACUATION
- PAR & ROLL-CALL RF SIGNALING
- INTERNAL ANTENNA
- PROPRIETARY GRACE "SMART-SIGNAL®" REPEATING TECHNOLOGY IMPROVES RF SIGNAL EFFECTIVENESS
- COMPLIANT TO NFPA 1982, 2013 EDITION REQUIREMENTS FOR RF PASS
- INTRINSICALLY SAFE TO UL913, AND CSA C22.2, No 157
- MEETS FCC PART 15 AND INDUSTRY CANADA REQUIREMENTS - NO FCC LICENSE REQUIRED

IN-COMMAND® ACCOUNTABILITY WITH TPASS®5

- AUTOMATED PAR CHECK REDUCES RADIO VOICE TRAFFIC
- USE WITH IN-COMMAND® PC AND TABLET ACCOUNTABILITY SYSTEMS
- USE WITH SUPERCELL® SC500-IC, MICROCELL® AES, ERT
- AUTOMATIC DATA LOGGING FOR POST INCIDENT REVIEW
- RF SIGNAL INTEGRITY INDICATOR
- MONITOR ALL PERSONNEL ON-SCENE
- AUTOMATIC PAR AND ROLL-CALL
- HIGH PERFORMANCE SECURE EMERGENCY SIGNALING



US Patent 7,538,666



THE CROSSOVER - SUPERPASS® 5X

TELEMETRY READY SUPERPASS® EASILY UPGRADES TO TPASS®

NFPA COMPLIANT



- PURCHASE AND USE AS A SUPERPASS® 5
- FIELD UPGRADEABLE TO A TPASS® 5 AT ANY TIME
- PURCHASE WITH TODAY'S BUDGET FOR TOMORROW'S NEEDS
- IDEAL MIGRATION PATH FOR BUDGET CONSCIOUS DEPARTMENTS
- USE WITH IN-COMMAND® FIRST-IN TABLET AND IN-COMMAND® FULL CREW

NFPA COMPLIANT
PROTECT ALL PERSONNEL
No SCBA REQUIRED

PURCHASE SUPERPASS® 5 FEATURES TODAY...
AND FIELD UPGRADE TO THE RF SIGNALING CAPABILITIES OF TPASS® 5



SUPERPASS® 5

SMALLEST • LIGHTEST • LOUDEST • STAND-ALONE PASS

NFPA COMPLIANT

SUPERPASS® 5 PROVIDES AN IMPROVED LEVEL OF SAFETY FOR FIREFIGHTERS

- INTRINSICALLY SAFE TO UL913, AND CSA C22.2, No 157
- COMPLIANT TO NFPA 1982, 2013 EDITION REQUIREMENTS FOR PASS
- BRIGHT, HIGHLY VISIBLE LED STATUS INDICATORS
- LARGE STAINLESS STEEL GRIP-CLIP & D-RING
- 95+ dBA SOUND PRESSURE LEVEL AT 500° F (260° C)
- DATA-LOGGING ALL PASS STATUS CHANGES (ON, OFF, ALARM, etc)
- HEAT STRESS TEMPERATURE ALARM ON ALL 5 LINE MODELS

NFPA COMPLIANT
PROTECT ALL PERSONNEL
No SCBA REQUIRED

- WHEN YOU ARE WEARING YOUR SCBA, WE KNOW YOUR NFPA INTEGRATED PASS ALARM MAKES YOU COMPLIANT.
- WHAT HAPPENS WHEN THE SCBA IS REMOVED DURING SCENE OVERHAUL?
- WHEN YOU REMOVE THE SCBA, YOU ARE REMOVING NFPA COMPLIANCE FOR USE OF PASS ON YOUR FIRE GROUND.
- INTEGRATED PASS PROTECTS AND MAKES YOU COMPLIANT INSIDE THE HOT ZONE; WHAT MAKES YOUR PERSONNEL OUTSIDE THE HOT ZONE NFPA COMPLIANT?



(ACTUAL SIZE)



SUPERCELL® SC500 INCIDENT COMMANDER

MONITORS FIREFIGHTER STATUS AND SENDS EVACUATION SIGNAL



SUPERCELL® SC500 INCIDENT COMMANDER MONITORS PERSONNEL ON SCENE, SENDS GLOBAL EVACUATION SIGNALS TO ALL RF PASS AND DISPLAYS ALARM MESSAGES FROM ALL RF PASS.

- MAYDAY ALARM MONITORING
- SEND GLOBAL EVACUATION SIGNALS
- CREW ROSTER NAME LIST MAY BE PRE-LOADED
- RECHARGEABLE LI-ION BATTERY
- INTRINSICALLY SAFE TO UL913, AND CSA C22.2, No. 157
- MEETS FCC PART 15 AND INDUSTRY CANADA REQUIREMENTS
- NO FCC LICENSE REQUIRED

TPASS® MICRO REPEATER

EXTENDS COVERAGE BY REPEATING RF PASS SIGNALS



TPASS® MICRO REPEATER IS A RADIO SIGNAL REPEATER THAT SUPPORTS GRACE TELEMETRY SYSTEMS BY RECEIVING AND RETRANSMITTING RF PASS SIGNALS. REPEATING RF PASS SIGNALS ENHANCES SYSTEM PERFORMANCE IN LARGE, COMPLEX BUILDINGS AND DIFFICULT ENVIRONMENTS.

- RETRANSMITS ALL RADIO SIGNALS
- PORTABLE, LIGHTWEIGHT, EASY TO DEPLOY
- CERTIFIED INTRINSICALLY SAFE FOR HAZARDOUS LOCATIONS
- RECHARGEABLE LI-ION BATTERY
- VISUAL LED AND AUDIO ACTIVITY INDICATORS
- MEETS FCC PART 15 AND INDUSTRY CANADA REQUIREMENTS
- NO FCC LICENSE REQUIRED

HIGHEST PERFORMANCE IN-BUILDING RF PENETRATION



MICROCELL® ERT AND AES

ON-SCENE PERSONNEL AND EQUIPMENT MANAGEMENT

MICROCELL® ERT

EQUIPMENT RESOURCE TAG FOR ON-SCENE IDENTIFICATION OF VEHICLES, EQUIPMENT AND APPARATUS

- AUTO RF POLLING IDENTIFIES ON-SCENE EQUIPMENT AND OTHER RESOURCES
- SMALL, LIGHTWEIGHT, WEATHER-PROOF
- MAGNETIC-MOUNT
- USE WITH GRACE IN-COMMAND® FULL-CREW
- USE WITH IN-COMMAND® FIRST-IN TABLET
- NO FCC/IC LICENSE REQUIRED
- POWERED BY TWO AAA ALKALINE BATTERIES

MICROCELL® AES

ACCOUNTABILITY / EMERGENCY SIGNALING FOR MANAGEMENT OF ON-SCENE SUPPORT PERSONNEL

- EMERGENCY DISTRESS TRANSMIT BUTTON
- AUTO RF POLLING IDENTIFIES ON-SCENE PERSONNEL
- SMALL, LIGHTWEIGHT, WEATHER-PROOF
- EASY TO USE
- GRIP-CLIP AND D-RING FOR EASY ATTACHMENT
- USE WITH GRACE IN-COMMAND® FULL CREW
- USE WITH IN-COMMAND® FIRST-IN TABLET
- NO FCC/IC LICENSE REQUIRED
- POWERED BY TWO AAA ALKALINE BATTERIES



REGARDLESS OF WHETHER SCBA IS WORN - NFPA REQUIRES EVERYONE TO WEAR PASS ALARMS

IT IS A COMMON MISCONCEPTION

HAVING JUST AN INTEGRATED PASS ALARM IN YOUR SCBA DOES NOT MAKE YOU NFPA COMPLIANT.
REGARDLESS OF WHETHER SCBA IS WORN - NFPA REQUIRES EVERYONE TO USE PASS ALARMS.

ARE YOU IN COMPLIANCE?

REGARDING THE USE OF PASS, NFPA PROVIDES ADDITIONAL, USEFUL INFORMATION SHOWN BELOW IN NFPA 1982 STANDARD ON PERSONAL ALERT SAFETY SYSTEMS (PASS) 2013 EDITION ANNEX A (NFPA 1500 A.1.1.1).

ANNEX A EXPLANATORY MATERIAL

ANNEX A IS NOT A PART OF THE REQUIREMENTS OF THIS NFPA DOCUMENT BUT IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY. THIS ANNEX CONTAINS EXPLANATORY MATERIAL, NUMBERED TO CORRESPOND WITH THE APPLICABLE TEXT PARAGRAPHS.

A.1.1.1 NFPA 1500, STANDARD ON FIRE DEPARTMENT OCCUPATIONAL SAFETY AND HEALTH PROGRAM, REQUIRES THAT EACH PERSON INVOLVED IN RESCUE, FIRE FIGHTING, OR OTHER HAZARDOUS DUTIES BE PROVIDED WITH AND USE A PASS.

PASS SHOULD BE WORN ON PROTECTIVE CLOTHING OR PROTECTIVE EQUIPMENT, OR AS AN INTEGRATED PART OF ANOTHER ITEM OF PROTECTIVE CLOTHING OR PROTECTIVE EQUIPMENT AND USED WHENEVER THE MEMBER IS INVOLVED IN FIRE SUPPRESSION OR SIMILAR ACTIVITIES, REGARDLESS OF WHETHER SCBA IS WORN. THIS MIGHT REQUIRE THE PASS TO BE MOVED FROM ONE PROTECTIVE CLOTHING ITEM TO ANOTHER OR THE DEPARTMENT TO PURCHASE ADDITIONAL PASS FOR USE WHERE STRUCTURAL PROTECTIVE CLOTHING IS NOT WORN, AS IN, FOR EXAMPLE, WILDLAND FIRE FIGHTING, TECHNICAL RESCUE, AND HIGH-ANGLE RESCUE.

PASS ARE DESIGNED TO ASSIST IN LOCATING FIRE FIGHTERS OR OTHER EMERGENCY SERVICES PERSONNEL WHO BECOME INCAPACITATED OR ARE IN NEED OF ASSISTANCE.

RF PASS CONTAIN AN OPTIONAL RF TRANSCEIVER THAT ENABLES THE PASS TO AUTOMATICALLY TRANSMIT ALARM SIGNALS AND RECEIVE EVACUATION ALARMS VIA RF SIGNALS. THE RF PASS RESPONDS TO AN EVACUATION ALARM WITH AN AUDIBLE AND VISUAL SIGNAL. A COMPLETE RF PASS SYSTEM INCLUDES A BASE STATION THAT MONITORS FOR AN ALARM SIGNAL FROM THE PORTABLE RF PASS UNIT AND EMITS AN AUDIBLE AND VISUAL SIGNAL WHEN THIS ALARM IS RECEIVED. THE BASE STATION IS ALSO CAPABLE OF SENDING AN EVACUATION ALARM TO THE RF PASS.



08/16 FIRE