

OPTIONAL EQUIPMENT



▶ **Remote Enhanced Radio Receiver**—For enhancing T-PASS™ signal reception. The system may be used as part of a portable system or permanently installed. Can be used with GEMS LCD Command Base Receiver and GEMS Multichannel Receivers.



▶ **T-PASS™ Transparent Repeater**—For extended range covering the largest facilities. Comes in a self contained, impact resistant ABS, water tight case. Can be used with GEMS LCD Command Base Receiver and GEMS Multichannel Receivers.



▶ **Automatic Telephone Dialer** — Programmable two channel speech dialer. Comes complete with telephone jack, connector cables. Also included is 120 A.C. power adapter. Can be used with GEMS LCD Command Base Receiver and GEMS Multichannel Receivers.



▶ **GEMS Alarm Indicator Display Board**— Works in combination with GEMS Multichannel Receivers. Immediately identifies an emergency by illuminating bright LED red lights.



▶ **DL100 DATA LOGGER**— Provides the ability to capture and log name, I.D. and status from Command Bases. **DATA LOGGER** comes with software to load onto a PC.

GRACE
INDUSTRIES, INC.
Solutions for Life Safety

Sales Division
645 Keith Lane, P.O. Box 1225
Owings, MD 20736 U.S.A.
1.800.204.7277 • 410-286-2401
Fax 410-286-2410 www.gracesales.com

QUALITY SYSTEM
REGISTERED TO
ISO 9001:1994



LONE WORKER SAFETY

Using GRACE Industries Wireless 'Man-Down' Alarm Systems



GRACE
INDUSTRIES, INC.
Solutions for Life Safety

T-PASS™ HP II

Transmitting Personal Alert Safety System

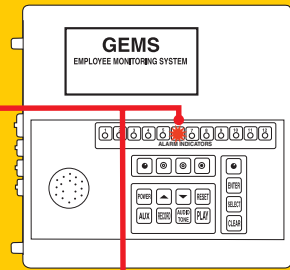
Spread Spectrum Radio Telemetry



1. Alarm Button
2. Reset Buttons
3. Grip Clip and "D" ring
4. LEDs illuminate the case during 'sensing', 'pre-alarm', and 'alarm' modes
5. Sound resonating ports
6. Radio transmitter antenna

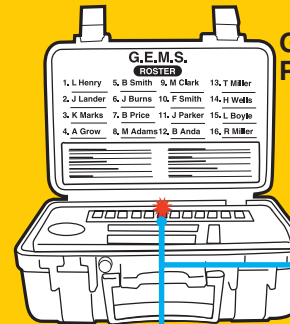
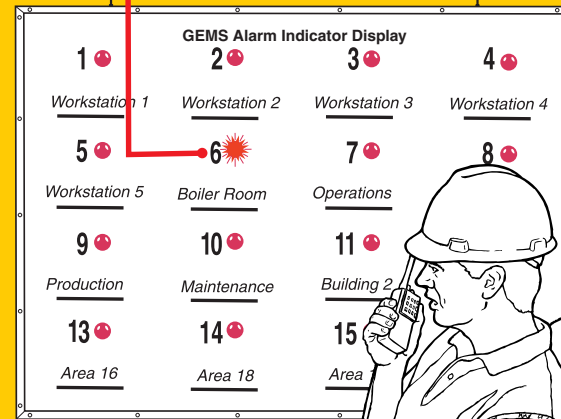
- ◆ Radio telemetry from the T-PASS™ provides the individual's status, which is displayed on the Base Receivers
- ◆ Immediate notification of an alarm condition via radio telemetry
- ◆ Smallest, lightest, loudest, automatic radio transmitting 'Man-Down' Alarm
- ◆ Loud audio alarm
- ◆ Manual ON/OFF
- ◆ Auto-on feature available
- ◆ Optional motion sensing mode
- ◆ Easily attaches to belt or clothing
- ◆ No FCC license required
- ◆ Certified intrinsically safe

GEMS MULTICHANNEL COMMAND BASE RECEIVER SYSTEMS



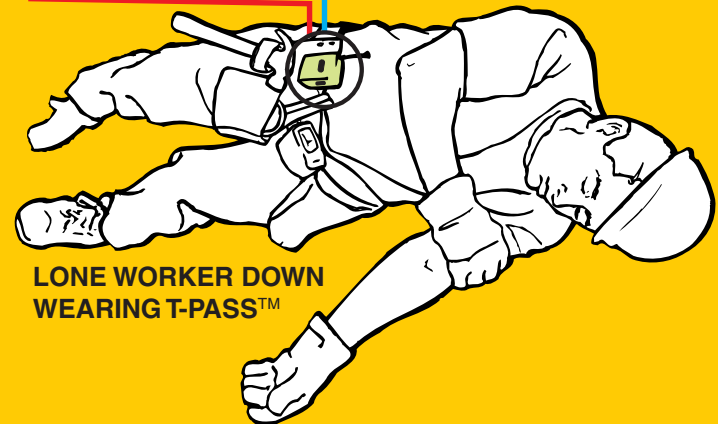
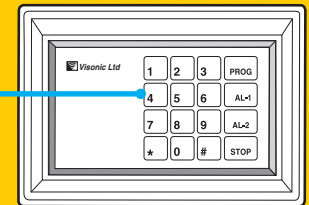
GEMS Multichannel Wall Mount Base Receiver

GEMS Alarm Indicator Display



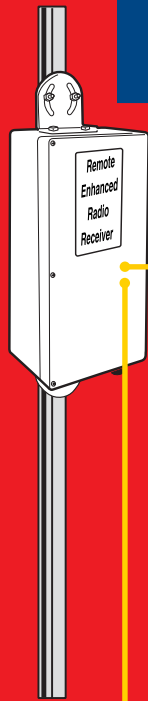
GEMS Multichannel Portable Base Receiver

Automatic Telephone Dialer
(Compatible with LCD or Multichannel Receivers)

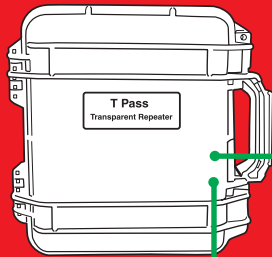


LONE WORKER DOWN
WEARING T-PASS™

GEMS LCD COMMAND BASE RECEIVER SYSTEMS



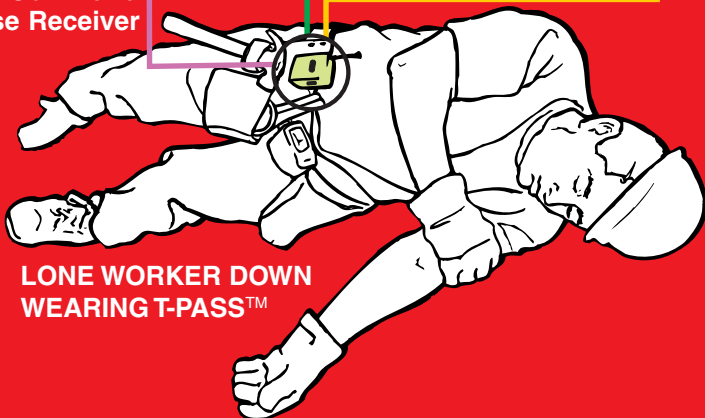
Remote Enhanced Radio Receiver
(Compatible with LCD or Multichannel Receivers)



T PASS Transparent Repeater
(Compatible with LCD or Multichannel Receivers)



GEMS LCD Command Base Receiver



LONE WORKER DOWN WEARING T-PASS™

GEMS LCD COMMAND BASE RECEIVER T-PASS™ STATUS SHOWN ON SCREEN

Mr. RIDER
T-PASS is in
ALARM!

Red LED
Lights Start
Flashing!

Audio Message
"MAN DOWN!"



Mr. Stevens
& Ms. Doane
T-PASS are
Inactive

Mr. Ryan
Ms. Ference
Mr. Randall,
& Mr. Turner's
T-PASS are
Active & OK

- ◆ Automatic accountability identifies all T-PASS™ units by user name and ID number.
- ◆ Displays all active T-PASS™ devices in "motion sensing" or "alarm modes".
- ◆ Alarm displays flashing Red lights and custom audio voice recorded message.

The **GEMS LCD Command Base Receiver** along with the **T-PASS™** use high performance radio telemetry providing the lone worker a reliable, easy way to summon help in the event of an emergency.

T-PASS™ users are continuously monitored by a GEMS LCD Command Base Receiver. The GEMS LCD Command Receiver displays all T-PASS™ users by name, ID number, and status. All T-PASS™ alarm conditions are immediately identified on the Command Base Receiver by flashing lights and playback of a customized audio message. The rapid alarm indication allows rescue operations to begin immediately.

Reliable, GEMS LCD Command Base Receivers and T-PASS™ Personal Alarms are designed to meet the quality and durability requirements of industry.

Expandable, GEMS LCD Command Base Receiver is easily expanded to accommodate increasing needs where larger area coverage and more personnel may be needed.



GEMS COMPONENTS

- A. GEMS Command Receiver.**
- B. Protective Case Cover.** A rugged, abrasion resistant, black nylon enclosure, padded with closed cell foam. Features an auxiliary component storage pocket.
- C. 5 Pin Plug and 10' Cable.**
Alarm relay contacts for activating auxiliary equipment.
- D. 120-240 V.A.C. 6' Long Power Cord.** Plugs into power jack on back of base for auxiliary power. Also used for charging internal batteries.
- E. RS-232 Connector.** Datalog output used for permanent record of incident /situation using an optional DL100 Data Logger or PC. Also used for name/ID management.
- F. Programming Key.** For programming or changing T-PASS™ ID number.
- G. 12 Volt D.C. Adapter.** 46" long cable, 4 pin Auxiliary connector on one end and 12 volt D.C. cigarette lighter plug on the other.
- H. Auxiliary Component Vinyl Storage Pouch.**
- GEMS Manual.** Easy to follow instruction manual (not shown).

GEMS MULTICHANNEL BASE RECEIVERS



**GEMS Multichannel
Wall Mount Base Receiver**



**GEMS Multichannel
Portable Base Receiver**

The **GEMS Wall Mount and Portable Base Receivers** along with the **T-PASS™** use high performance radio telemetry providing personnel, reliable and a rapid response to summon help in the event of an emergency. Both systems are designed to work with the optional **GEMS Alarm Indicator Display Board**.

All **T-PASS™** alarm conditions are immediately identified on the **GEMS Wall Mount, or portable Multichannel Base Receivers, GEMS Alarm Indicator Display Board** and the **Automatic Telephone Dialer**.

GEMS SPECIFICATIONS

Alarm Indicators: Flashing red lights, playback of customized recorded audio message, form C relay contact closure. LCD screen displays user name and ID, (available on LCD Command Base Receiver only).

Range: Up to ½ mile depending on environment and other limiting factors.

Radio: Spread Spectrum 902 – 928 MHz license free ISM band.

Power: 120-240 volts AC, internal battery pack, self-charging, 12 volt DC auxiliary input.

Capacity: Multiple T-PASS™ personal alarms can be monitored simultaneously. LCD Command Base Receiver can monitor 800 T-PASS™ units. Multichannel Base Receivers can monitor up to 16 T-PASS™ units.

Outputs: Form C Relay contact closure for all alarm conditions can be used to trigger other external auxiliary devices, including phone dialers and warning sirens. Relay Contact Rating 5A/250VAC, 5A/30VDC.

RS232: Serial port data log output and user name database management. (Available on LCD Command Base Receiver only).