

T7450A

Paging System Transmitter

USER MANUAL



Installation, Warranty and Service Information



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Long Range Systems

Thank you for choosing Long Range Systems to provide your on-premise paging solution. We provide cutting edge products and first-rate service to satisfy your needs for years to come. Please familiarize yourself and your staff with the contents of this instruction in order to properly operate and maintain your system. For help operating your system or for any service problems, please call:

(800) 437-4996.

Keep this instruction in a safe place with copies available to managers and key staff.

General Information

The Trinity Paging System is used to page three types of receivers.

- On site guest pagers.
- On site staff pagers (Rechargeable and/or Battery powered)
- Patron provided telephone pagers (cell phones and wide area pagers).

On site receivers are paged directly through a radio transmitter located in the T7450A transmitter. Patron cell phones are contacted by calling their service through a dedicated telephone line.

Additional functions available with this system are:

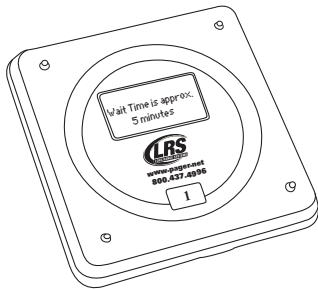
- Group Paging. Multiple Staff Pagers assigned to work groups can be paged at the same time.
- On site pager programming. Groups can be reconfigured and pagers renumbered as necessary using the transmitter.
- Off site paging of on-site staff pagers through the telephone line.

Compatible Pagers

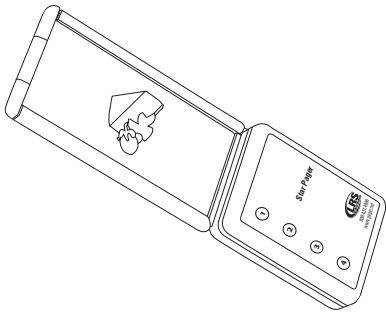
Customer Pagers:



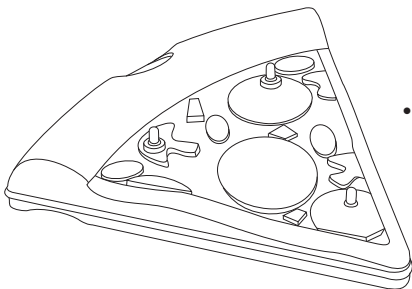
• Coaster Call



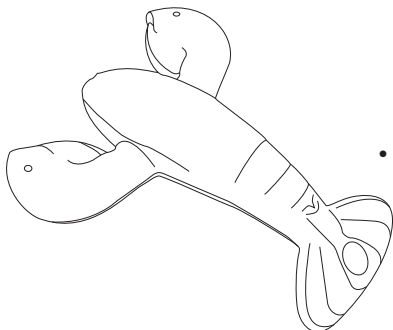
• Alpha Coaster



• AdverTeaser (Paddle) Pager

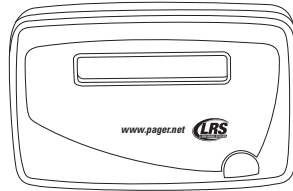


• Pizza Pager

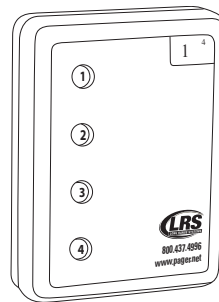


• Lobster Pager

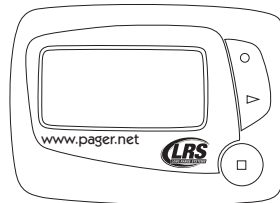
Staff Pagers:



• SP5 1-Line Rechargeable Alpha Numeric Pager



• Star Pager



• RX-E 4-Line Alpha Numeric Pager (Battery Operated)


Installation and Setup

Transmitter Installation

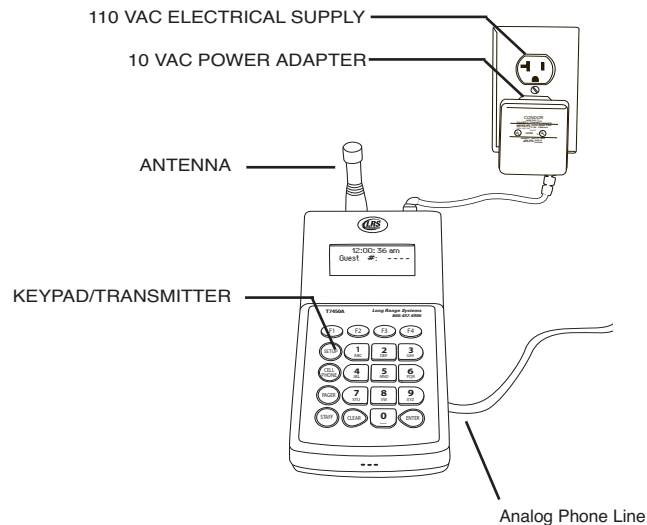
! CAUTION: : Do not connect any other devices to the transmitter. The transmitter requires a separate power supply.

! CAUTION: Do not mount the transmitter antenna near any large metal objects.

1. Unwrap all controller components.
2. Connect the antenna (about 3" long) onto the connector on the back of the transmitter. It is best to mount the antenna pointing straight up, perpendicular to the ground.
3. Mount the transmitter convenient to 110/220V power.
4. Plug the power supply into standard 110/220V outlet and the barrel connector end into either of the side holes on the transmitter.
5. Connect a dedicated analog telephone line to the telephone jack on the side of the transmitter.

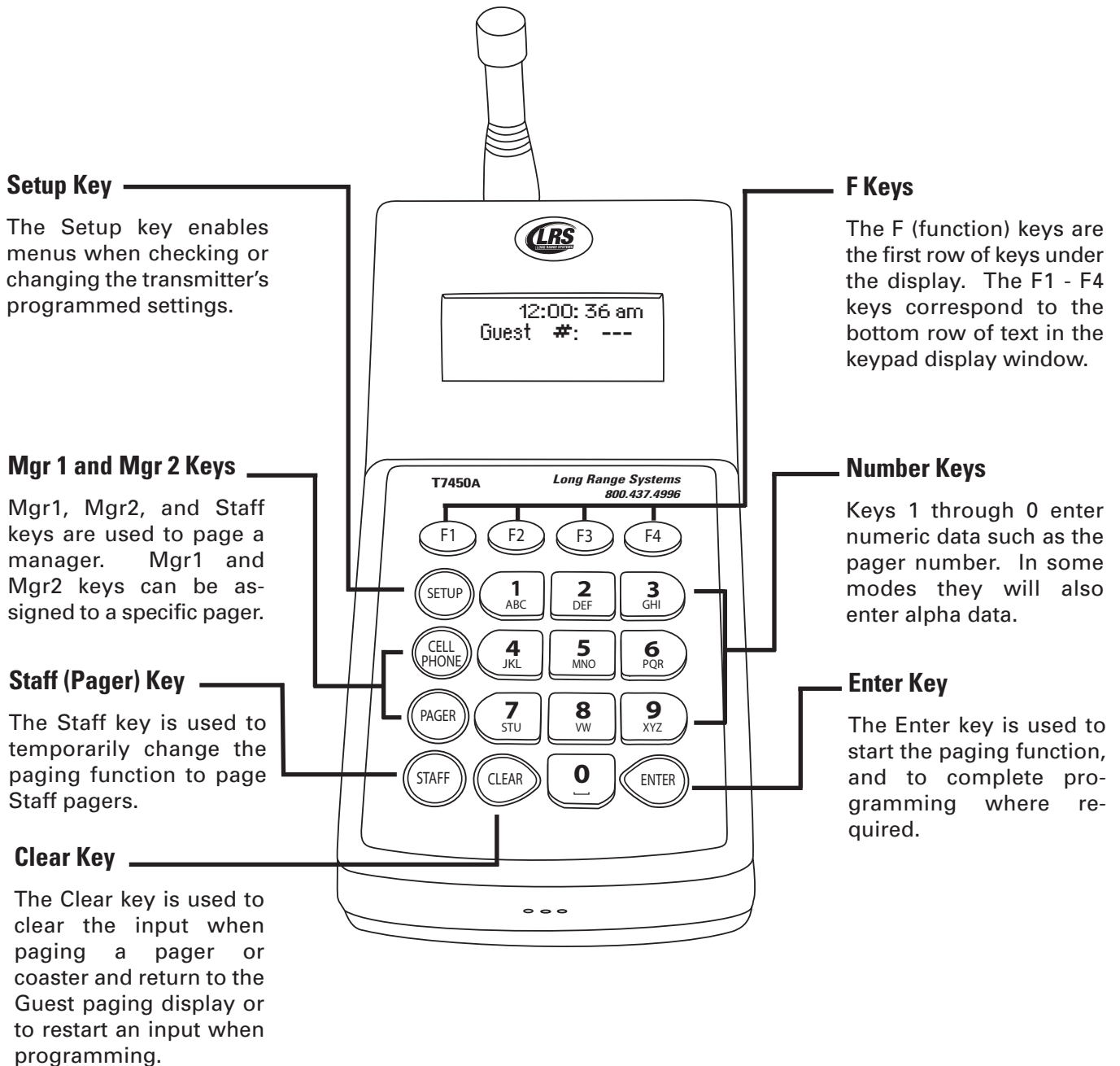
 **Note:** when the power is connected and a phone line is installed the unit will check the line for acceptability. If the unit detects no line or a digital line have your phone service representative apply the correct line type.

6. If your phone line requires dialing a digit to get an outside line, be sure to set up the transmitter this way (see Setting Telephone Dialing Properties on page 11).
7. Upon completion of setup make sure pagers are fully charged and/or have good batteries and are powered on.
8. You should perform a range test (page 31) to see if the pagers can be paged in all waiting locations of your facility.



Keypad Description

Before using the keypad, please read the following descriptions. Note that during any setup functions that the display changes the keys may perform different functions.



Initial Power Up

1. When power is applied the transmitter begins initializing. During the initialization the state of the telephone interface is shown,
2. After the transmitter initializes, enter the current time and press the <Enter> key. (NOTE: Pressing F1 (EXIT) bypasses this function and sets the time to 12:00am).
3. When the display asks for AM or PM press the F1 Key for AM or the F4 key for PM. (Note that AM is right above the F1 key and PM is right above the F4 key). The display changes to the guest menu with the time shown.
4. Enter the current Date and press the Enter key. The display will show to enter the date as MM/DD/YY (month/day/year) or DD/MM/YY. (Note: Pressing F1 (EXIT) bypasses this function and sets date to January 1st of current year, example 01/01/07.)

OPERATING LIMITATIONS

Be aware of the following operational limitations when using this system.

- Guest Pager numbers 500 to 627 cannot be used, and are reserved for Cell Phone Paging, WAP Paging, and Dry Contacts.
- When Group Paging is enabled, Staff Pagers numbered between 1 and 99 cannot be used.

Basic Paging Operation Guide

The T7450A is shipped from the manufacturer set for use in the most commonly used configuration.

Page Guest Pagers:

Enter the number assigned to the guest at handout and press Enter.



Note: be sure to put pagers back on charge when returned.

Page Guest Alpha Coasters:

1. Enter the number assigned to the guest at handout and press Enter.
2. Enter number of preset or custom message and press Enter.

Page Guest Cell Phones or Pagers: (If outgoing Telephone interconnect enabled)

Collect Guest Information

- Press Cell Phone or Pager.
- Enter the patron's cell phone or pager service number and press Enter.
- Note the Guest Reference Number shown on the screen on the call sheet.
- Press Enter (this loads the number in the call reference).

Paging Guest:

- When the patron's service becomes available, enter the Guest Reference Number and press Enter.
- The prerecorded message is sent to their pager or cell phone.

Page Individual Staff Pagers:

1. Press the Staff button.
2. Enter the pager number and press Enter.
3. At the Select Page Mode screen:

Star Rechargeable Pagers:

- Press V1, V2, or V3 to send 1, 2, or 3 vibrations to the pager or
- Enter a MSG: 0 – 9 and press Enter.

Numeric Pagers:

- Press V1, V2, or V3 to send 1, 2, or 3 vibrations to the pager or
- Select an alpha message and press Enter (Note: a list of preset messages is shown on page 9.)

Alpha Pagers:

- Select an alpha message and press Enter (Note: a list of preset messages is shown on page 9.)

Page Staff Groups:

If Groups is enabled, Staff numbers 1 through 99 will page the group of pagers.

1. Press the Staff button.
2. Enter the group number and press Enter.
 - At the Select Page Mode screen select vibration or message and press Enter (see the list of preset messages).

All Staff Page: (if all staff pagers need to be called at once)

- Press Staff.
- Press 9 1 1 then Enter.
- Enter message number code (000-999) (see Preset Messages Table below).
- Press Enter or choose F1 (V1), F2 (V2), F3 (V3) or F4 (Exit) for 1, 2, or 3 vibrations.

All Call Page: (if all guest and staff pagers need to be called at once)

For Guests:

- At "Guest #: - - -" Screen Display, press 000 then Enter.
- At Page All? press YES (F1).

For Staff:

- Press Staff.
- At "Pager #: - - -" Screen Display, press 000 then Enter.
- At Page All? press YES (F1).
- Enter a message 0 – 9 (for SP4) or a message number code (000-999) (see Preset Messages Table below).
- Press Enter or choose F1 (V1), F2 (V2), F3 (V3) or F4 (Exit) for 1, 2, or 3 vibrations.

Paging Guest Pagers from a Remote Telephone:



Note: The use of the star (*) key and pound (#) keys can be changed from the following default by adjusting the Dial In Paging Mode page 12).

- From the remote telephone, dial the telephone line attached to the T7450A.

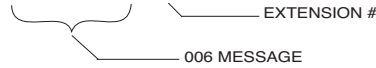
- At 3 short beeps, press the pager number followed by ** (star key twice).
- Hang up.

Preset or Special Alpha-Messages:

When prompted by the T7450A for a message, enter the code and a numeric extension before pressing the Enter key (refer to the following chart).

Example: To send a message to call extension 123, enter the code 006123.

The pager will show CALL EXT 123.



Note: These non-editable messages are built into the transmitter. If using Alpha pagers, additional messages can be created (see *Create Additional Alpha Messages on pg. 18*).

Code Message

000 Phone Call	020 Starter	040 Door	060 Car
001 Sales Call	021 Service drive	041 Survey	061 Bus
002 Manager	022 Showroom	042 T-nnn Q-mm	062 Bay
003 Customer	023 Parked Call	043 Break	063 Low battery
004 Room	024 Voice Mail	044 Fire	064 Error
005 Visitor	025 Dressing room	045 Unit	065 Exit
006 call Ext	026 Price check	046 Window	066 Fax
007 MTG Room	027 Department	047 Nurse	067 host
008 Lane	028 Cashier	048 Register	068 Space
009 Aisle	029 Office	049 Owner	069 Location
010 Void	030 Table	050 Check	070 Nursery
011 Stamps	031 Winner	051 Drink	071 Teller
012 Change	032 Pickup	052 Food	072 Officer
013 Station	033 Dock	053 Service	073 Buffet
014 Machine	034 You have mail	054 Seat	074 Diaper change
015 Operator	035 Table ready	055 Booth	075 Child crying
016 Emergency	036 No special	056 Lobby	076 To nursery
017 XX Minutes	037 Hole	057 Help	
018 Tee	038 Kitchen	058 Restroom	
019 Pro Shop	039 Bar	059 Valet	

Special Operational Procedures

The procedures in this section are additions to the basic paging functions

Theft-Deterrent

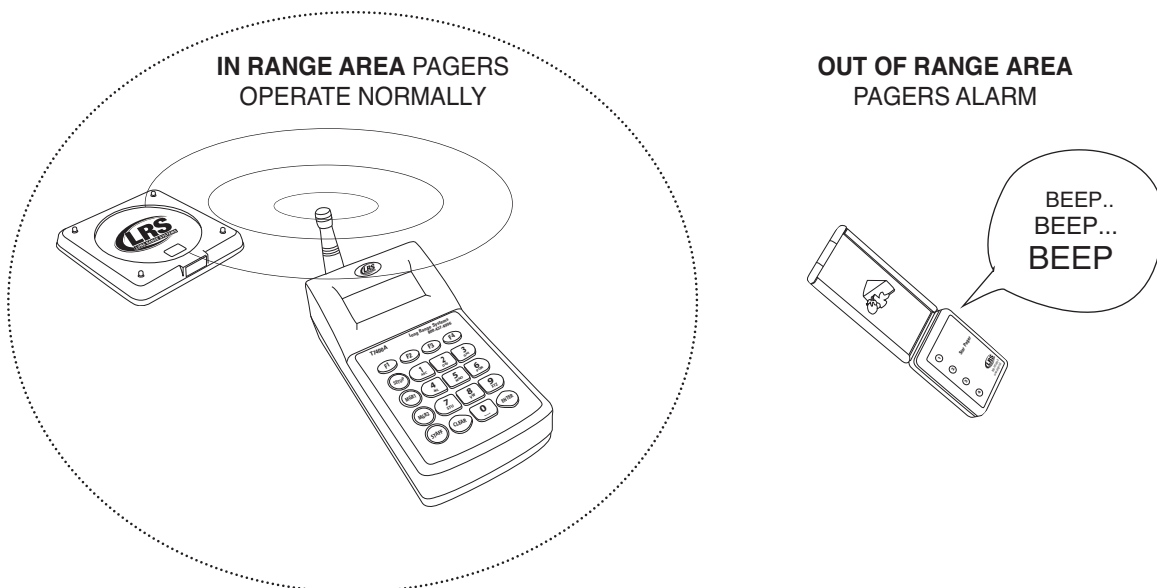
Theft deterrent is used to alert staff and guests that they are leaving the premises while still carrying the pager. When activated, the transmitter sends a signal to the coaster/pager, and if the signal is not received, the coaster/pager will emit a continuous beep until it is returned to the charging unit or back in range. The LED screen on the alphanumeric pagers will display "OUT OF RANGE". A "T" in the upper left corner of the display indicates the Theft-Deterrent Mode is ON. The factory default is OFF. To turn Theft-Deterrent Mode ON or OFF:

Notice: Operation is subject to the following:

- This device may not cause interference.
- This device will accept any interference including interference that may cause undesired operation of the unit.

Notice: To reduce potential radio interference to other users, the antenna type and gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than required for successful communication.

1. Press SETUP to enable the function menu.
2. Press 2 to select Theft Deterrent.
3. Press F1 (ON), F2 (OFF), F3 for HELP and "F4" for Exit.



Telephone Interface:

General Concept

The telephone interface is used to extend the capability of the on-premise paging system.

- Cell Phones and Wide Area Pagers (WAP) can be paged from the transmitter.
- On-premise staff pagers can be paged and messaged from a remote telephone.
- If paging on premise pagers from a remote telephone, the tracking mode (if in use) will be disabled.

System Requirements

The interface requires the dedicated use of an analog telephone line with DTMF dialing capability. The line can be either a direct link to the phone company or through a local PBX that may require the dialing of an outside line digit (typically 9). Once the line is established:

- Set the transmitter for the correct telephone dialing properties.
- Record the voice prompt.
- Set the WAP prompt.
- Connect the telephone line.
- Inform any staff members that may receive outside pages the meaning of any messages they might receive.



Note: *if the line is not used for incoming calls, the additional jack on the keypad can be used to connect a local telephone. Incoming calls will trigger the transmitter receiving circuit.*

Telephone Dialing Properties

Dialing properties sets the number used by your telephone system to dial an outside line before dialing the patron's pager or telephone (e.g., dial 9 for an outside line). To set the dialing properties:

1. Press SETUP to enable the function menu.
2. Press F1 (More) until the unit shows 3: Phone Settings.
3. Press 3 to select the dialing Properties.

General Properties

1. From the Phone Settings menu, press 1: General to enable or disable the inbound or outbound functions.
2. Press F1 (Program)
3. Select:
 - 1: Access Number to select a number to use if the PBX requires a dial out number.
 - 2: Direction to enable or disable inbound or outbound dialing.
 - 3: Retention to retain (or not retain) the list of called numbers in the phone list. (Maximum of 100 numbers retained. Oldest numbers will be deleted automatically at full count and count will restart at number 500.).

DTMF Properties

1. From the Phone Settings menu, Press 2: DTMF Setup to adjust the dialing properties to match the phone system.
2. Select:
 - 1: DTMF Sending adjust the timing (1: DTMF Pulses) and gain level (2: DTMF Level) to select a number to use if the PBX requires a dial out number.
 - 2: DTMF Receiving adjust the gain of incoming calls.

Voice Prompts

Voice prompts are the messages given to the patrons when paging their cell phones. To record a message for the prompt:

1. Press SETUP to enable the function menu.
2. Press F1 (More) until the unit shows 1: Prgm Prompt.
3. Press F1 to Continue
4. Select Voice Prompt to record:
 - Press 1 for Guest Call message.

- Press 2 for Dry Contact 1 Call message.
 - Press 3 for Dry Contact 2 Call message.
5. Press and hold ANY key to record.
 6. When the display changes to Recording, speak in a normal tone of voice into the microphone (located behind the hole in the case below the 0 key).
 7. When the prompt is finished, release the key.

Wide Area Pager Messages

Wide Area Pager (WAP) messages are the messages sent to patrons on their personal pagers. To select the message for the prompt:

1. Press SETUP to enable the function menu.
2. Press F1 (More) until the unit shows 2: Prgm WAP MSG.
3. Press 2 to select WAP Messages.
4. Press the number 1 through 9 to be sent to the pager. This number will fill the message portion of the receiving pager.
 - **Example:** 1 will display 1111111111, 2 will display 2222222222, etc.
5. Press the Enter key.

Setting the Telephone Dial In or Dial Out Function On or OFF

Sometimes it is not desired to use the inbound or outbound cell phone or paging function (e.g., a sales office). To turn this function on or off:

1. Press SETUP to enable the function menu.
2. Press F1 (More) until the unit shows 3: Phone Settings.
3. Press 3 to select the phone settings.
4. Press 1: General.
5. Press F1 (Program).
6. Select 2: Direction to change the Outbound or Inbound Dialing to on or off.
7. Press F1 (YES) to change the Outbound ON or OFF.
8. If yes is chosen perform the following step, if no, skip to step 11.
9. Press F1 (ON) to set the function on or F2 (OFF) to set the function off.



Note: v2.19 and later require selecting 1: Access Number, in the General menu, after Program to change set and outside line number.

10. Press F4 (NO) if you do not have to dial a number to get an outside line.
11. Press F1 (YES) if you do have to dial a number to get an outside line and enter the number to be used and press F1 (YES) again.
12. Press F1 (YES) to change the Inbound ON or OFF.
13. Press F1 (ON) to set the function on or F2 (OFF) to set the function off.

Set Telephone Dial-In Paging Mode

This allows you to select the telephone * and # functions used in paging guest and staff pagers when dialing in. To set the modes:

1. Press Setup.
2. Press F1 (more) until 3: Phone Settings is shown.
3. Select 3 for Phone Settings.
4. Press F1 (more) then 1: Mode.

5. At the Incoming Mode screen select:

0 to set the unit to default version mode --

- Pager No, *, Msg,. # - Pages staff with message.
- Pager No, *, # - pages Staff with no message.
- Pager No, Hang up - pages Staff with no message.
- Pager No, *, * - pages Guest.

1 to set the unit to mode 1 --

- Pager No, *, Msg,. # - Pages staff with message.
- Pager No, *, Msg, * - Pages staff with message.
- Pager No, (and wait) or Hang up - pages Staff with no message

2 to set the unit to mode 2 --

- Pager No, *, Msg,. # - Pages staff with message.
- Pager No, *, * - pages Guest.
- Pager No, * (and wait) or Hang up - pages Guest.

3 to set the unit to mode 3 --

- Pager No, #, Msg, # - Pages Guest with message (also allows paging Guest Alpha Coaster with Flash/Beep Page setting.)
- Pager No, *, Msg, * - pages Staff with message.

Locate Misplaced Pagers

Two location modes are available for finding lost or misplaced pagers/coasters. Auto Locate automatically searches at a preset time; Run Locate searches on demand.

Auto Locate

Auto Locate sends a signal to ALL coasters/pagers at a preset time. The coaster/pagers will beep or flash so that staff can locate them, and then return the pagers to a charger or remove the battery.

For example, if closing at 11:30 PM, the transmitter can be set to auto locate at 12:30 AM causing all missing coasters to beep at that time.

To program Auto Locate:

1. Press SETUP
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Select 1: Prog Auto Func.
5. Select 1: Pgm Auto Loc.
6. The Screen will show if AUTO Locate is ON or OFF.
 - Press F2 to turn the function OFF and the unit returns to the guest menu.
 - Press F1 to turn the function ON.
7. If turning the function ON:
 - Press F4 (EXIT). The display asks for the time to start the function.
 - Enter the time and press the ENTER key.
 - Press F1 (AM) or F4 (PM) and the unit returns to the guest menu.

Run Locate

Run Locate is used to immediately locate any misplaced coasters/pagers around the restaurant (ideal during closing hours.) When activated, a signal is sent out to ALL guest pagers and pagers will beep or flash until returned to a charging unit or the batteries are removed.

To locate ALL coasters:

1. Press SETUP
2. Press "MORE" (F1) until you are asked for the authorization code.

3. Now type 5-6-7-8-9.
4. Repeatedly press F1 until you see 3: Run LOCATE on the menu.
5. Select Run LOCATE.
6. Select the F3 MODE for location (either flash or beep).
7. Press F1 (GO) to start locating.

Tracking Modes:

There are 2 tracking modes:

- *Continuous Tracking* – repeatedly sends paging signals until cleared.
- *Custom Tracking* – sends paging signals for a specified length of time, based on a user-defined time interval.

Continuous Tracking

This function allows the host to set paging to occur continuously, and monitor which Guest or Staff pager has been paged. Paging continues until the number is cleared on the keypad unit.

! Caution: *When the pager is returned, the number MUST be cleared on the keypad unit in order to stop paging.*

To turn Continuous Tracking on (or off):

1. Press SETUP
2. Press F1 (MORE) until asked for an authorization code
3. Type 5-6-7-8-9
4. Select 2 (Prgrm Tracking)
5. Press F1 (ON) or F2 (OFF)
6. Select 1 (Continuous)

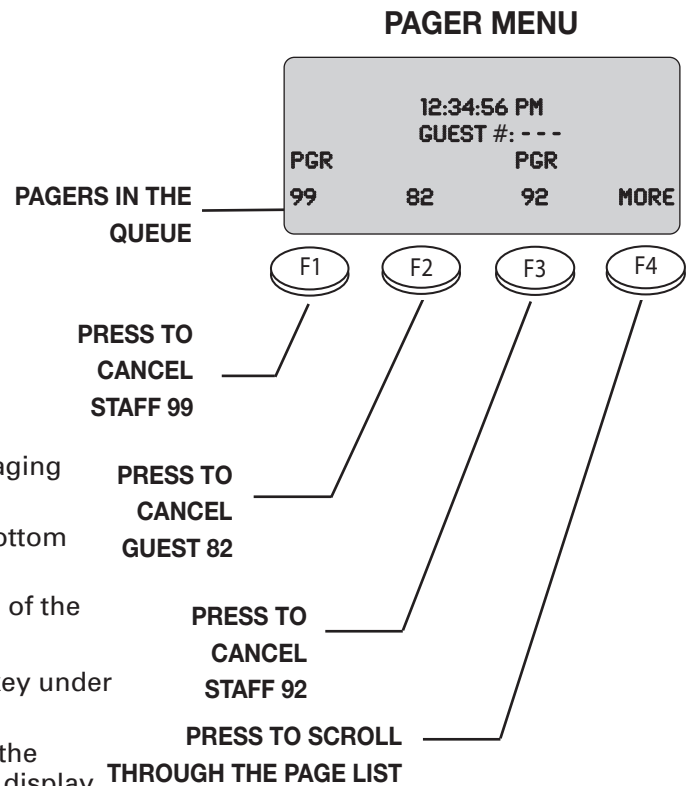
To Use Continuous Tracking

Page the Guest or Staff pager in the basic paging procedure.

- The pager number will appear at the bottom of the screen.
- As long as the number is at the bottom of the screen the pager is being paged.

Clear the Page by pressing the F1, F2 or F3 key under the pager number shown on the display.

- If more than 3 pagers are in the queue the MORE will be shown at the right of the display.
- Press the F4 (MORE) key to see the rest of the list.



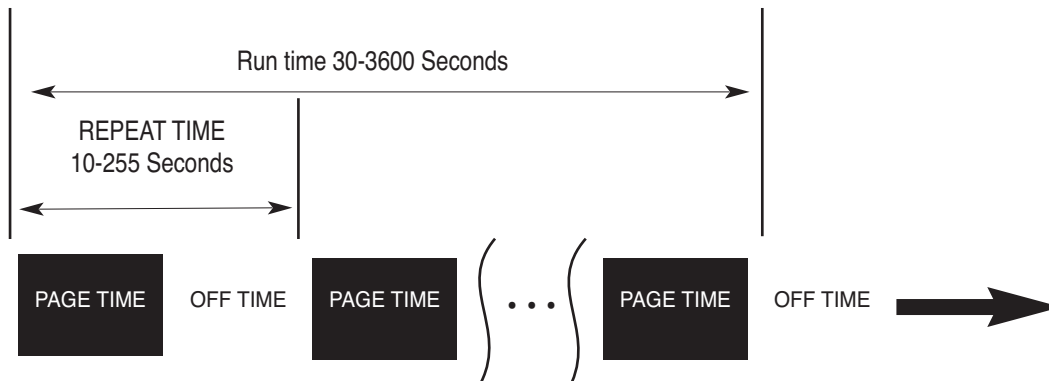
Custom Tracking

This function allows the host to monitor which Guest or Staff pager has been paged, and continues paging, based on a user defined interval and run time setting. The pager number is cleared on the keypad unit when run time is complete.

To turn Custom Tracking on (or off):

1. Press SETUP.

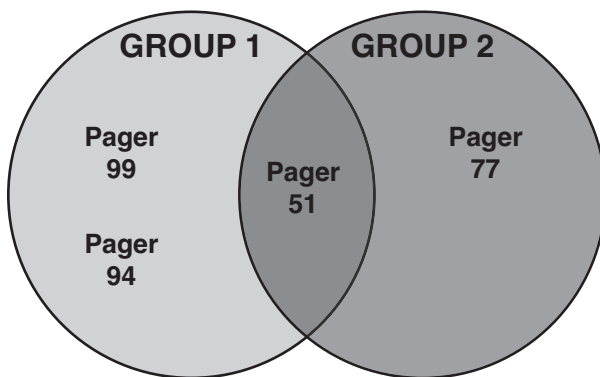
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Select 2: Prgm Tracking.
5. Press F1 (ON) (or F2 (OFF)).
6. Select 2: Custom.
7. Press any key.
8. Set the repeat time between 10 and 255 seconds, and then press ENTER. The repeat time defines how many seconds between each page.
9. Set the run time between 30 and 3600 seconds, and then press ENTER. The run time defines the total amount of time the repeated pages will continue for. For example, if you choose 120 seconds, the T7450A will continue to page at the defined repeat time until the overall 2 minutes (120 Seconds) is timed out.



Group Paging:

General Purpose

This function is used with Alpha pagers. These pagers can be programmed to respond to group calls. 99 groups are available and each pager can be a member of 5 groups. Each pager will respond to its individual number and to any groups it belongs to. See example below.



Group Paging Rules

General rules for paging groups are:

- Pagers must be programmed in the group mode (see page 28).
- Pagers must be numbered above 100.
- If using pagers numbered 500 to 627, the outgoing telephone paging feature must be disabled.
- Any alphanumeric pager can be a member of up to 5 groups.

Paging Groups

1. Enter the number for the pager or the group.
 - If only paging staff pagers and have the transmitter default set to Pager, enter the pager or group number directly.
 - If paging, default is set to Guest, press Staff before entering the pager or group number.
2. Enter the message to send.
3. Press Enter

Auto Shutoff POCSAG Pagers:

POCSAG pagers may be set to shutoff from the T7450A. At the selected time Auto Shutoff sends out a signal to ALL POCSAG pagers. For example, if you close at 11:30PM, the keypad can automatically send out a signal at 12:30AM that will shutoff any pagers not already turned off. To program Auto Shutoff:

1. Press SETUP.
2. Press MORE (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 1: Prg Auto Func. on the menu.
5. Press number 1.
6. Then Press 2 to select 2: Pgm Auto OFF.
7. The Screen will show if AUTO Shutoff is on or off
 - Press F2 to turn the function OFF and the unit returns to the guest menu.
 - Press F1 to turn the function ON.
8. If turning the function ON:
 - Press F4 (Done). The display asks for the time to start the function.
 - Enter the time and press the ENTER key.
 - Press F1 (AM) or F4 (PM) and the unit returns to the guest menu.

FEATURE SETUP PROCEDURES

After using the system it may be desirable to change some of the default settings. The following procedures describe these modifications.

User's Access Code

Many of the functions that adjust paging preferences are protected by an access code

- To reduce tampering with critical settings, the keypad is password protected.
- The access code 56789 allows you to enter most restricted programming screens.
- Press F4 at any menu to return to the Guest menu.

Set Page Mode

This programs how guest and staff pagers will respond when paged. Guest pagers can flash, beep, glow, flash and beep, etc. All page modes are staff programmable and do not require an authorization code. To set the modes:

1. Press SETUP.
2. Select 1 (1: Set Page Mode)
3. Select 1 (1: Guest Pager) or (2: Manager Pager)

Guest Pager

Select 1: Guest Pager, then select:

- 1 (1: Flash) sets how long the pager flashes before shutting off.
 - Choose 1 (1 Sec.), 2 (30 Sec.), 3 (Cont) or 4 (Beep) (Default is 30 seconds)
 - Select vibration mode F1 (ON), F2 (OFF), F4 (EXIT)
- 2 (2: Beep Only) sets how many times the pager beeps before shutting off
 - Choose 1 (Beep 3 Times), 2 (Beep Cont) and Press ENTER
 - Adjust beep volume (Loud/Quiet) level F1 (UP), F2 (DN), F3 (HELP), F4 (EXIT)
 - Select vibration mode F1 (ON), F2 (OFF), F4 (EXIT)
- 3 (3: Glow) sets how long the pager will glow before shutting off
 - Choose 1 (Glow 15 Times), 2 (Glow 5 Minutes)
 - Select vibration mode F1 (ON), F2 (OFF), F4 (EXIT)

Manager Pager

Select 2: Manager Pager, then select:

- 1 (1: Vibrate) set the number of vibrations for the pager
 - Choose 1 (Vib 1), 2 (Vib 2), 3 (Vib 3) (Default is 3)
- 2 (2: Beep) set how the pager will beep before shutting off
 - Choose 1 (Beep 3 Times), 2 (Beep Cont) 3 (Look Down Mode) [look down requires a pager reset]
 - Adjust beep volume (Loud/Quiet) level F1 (UP), F2 (DN), F3 (HELP), F4 (EXIT)
- 3 (3: Both) set the number of times the pager will beep and vibrate before shutting off
 - Choose 1 (Vib/Beep 1), 2 (Vib/Beep 2), 3 (Vib/Beep 3)
 - Adjust beep volume (Loud/Quiet) level F1 (UP), F2 (DN), F3 (HELP), F4 (EXIT)

Set to Page Staff or Guest Pagers

In cases where the unit will always page staff pagers, the keypad can be set to default paging either Guest or Staff pagers. Factory default is Guest:

1. Press SETUP.
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Press MORE (F1) to find 3: Default Mode.
5. Select 3: Default Mode.
6. Select Guest (F1) or Pager (F4).

Create Alpha Messages

If the staff pagers are Alpha types, they can display 77 built in messages and additional user defined messages of up to 32 characters (numbered 077 through 099).

1. Press SETUP.
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 2: Canned Msgs on the menu.
5. Press 2 to select Canned Msgs.
6. Press up (F2) or dn (F3) to scroll through the message list.
7. Press EDIT (F1) once.
8. At the Edit User Message screen select Edit (F1) or New (F2) to change or enter the message.
9. Enter the desired message using the number keys, waiting until the cursor moves between letters.
10. When finished, press EXIT (F4).
11. At the canned message screen, press EXIT (F4) to return to the menu selection or select the next message to enter or edit.

Set Alarms

This function is used to set the transmitter to page individual or all STAFF pagers at a specific time or on a timed interval. The transmitter can send 3 different time alarms or periodic alarms. Alarms may be set to page a specific pager (or all pagers) at a specific time every day

1. Press Setup.
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 1: Set ALARMS on the menu.
5. Press 1.
6. From Pick Alarm, select the number of the alarm to set (0 through 2).
7. The Alarm Display screen shows the type and status of the selected alarm. Select Change (F1) to enable/disable or modify the alarm.



Note: If the alarm is already enabled as an interval alarm:

- Press YES (F1) to reset the timer and return to the paging menu.
 - Press NO (F4) to continue to the ON/OFF menu.
8. At Turn ON or OFF select ON (F1) to enable or OFF (F2) to disable the alarm.

9. At Set Pager Number menu:
 - Either enter the number of the pager to alarm followed by Enter
 - or Press KEEP (F1) to use the existing number.



Note: Entering pager number 911 will page all alpha pagers

10. At the Msg: prompt enter the message to send followed by Enter: (a list of preset messages for alpha pagers is shown on page 9)

Interval Alarms

Interval alarms are alarms that re-page a staff pager at regular intervals.

1. At the Interval Alarm?, select YES (F1)
2. Enter the desired time interval in hours and minutes (HH:MM) and Press Enter. Transmitter returns to the paging menu.

Timed Alarms

Timed Alarms are alarms that page staff at a particular time every day.

1. At the Interval Alarm?, select NO (F4)
2. At the Set Start Time menu enter the time for the alarm followed by Enter:
3. Select AM (F1) or PM (F4). Transmitter returns to the paging menu.

Set Start of POCSAG Paging

This function is used to set the crossover points where non-POCSAG end and POCSAG pagers begin. The default crossover for Staff Pagers is 50, below which Star Pagers are used, and above which Alpha Numeric pagers are used.

For Guest Pagers, the default crossover point is 1000 for below which Coasters and Paddle Pagers, and above Alpha Coasters is used.

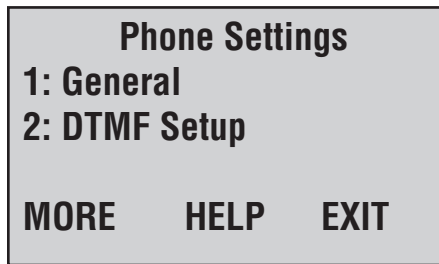
To change the crossover points:

1. Press Setup.
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 3: POCSAG Start on the menu.
5. Press 3 for 3: POCSAG Start
6. For Staff Alpha Pagers, press the associated number key, press ENTER. Starting number from 1 – 9999. (Note: Press ENTER to keep a default value.)
7. After accepting value, screen will move to Guest Pagers.
8. For Guest Alpha Pagers, press the associated number key, press ENTER. Starting value from 1 – 9999.

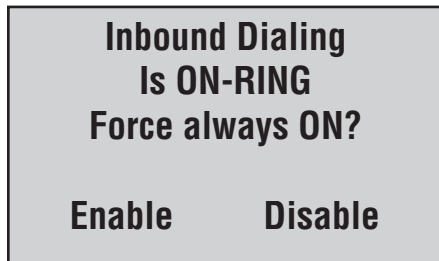
Enable/Disable Direct Dialing Input

This function is used to couple a telephone keypad directly into the transmitter. This allows use of remote paging without using a telephone switchboard. Once enabled and installed, the paging function is the same as with a dial in. A telephone line adapter to provide line current is required.

1. Press Setup to enable the function menu
2. Press F1 (More) until the unit shows 3: Phone Settings.
3. Press 3 to select this function. The screen shows:



4. Press number 9 (selects a hidden menu). The screen shows:



5. Press F1 (Enable) or F4 (Disable) to set the feature on or off.

6. Go back to Setup and Press set Outbound Dialing OFF (see Dialing Properties, Page 11.)

7. Use the remote telephone to enter the paging data.

Remember Telephone Numbers

This allows your transmitter to retain the telephone numbers so they may be re-paged (Note: the unit will only retain 100 numbers before it writes over the oldest numbers in the list).

1. Press SETUP.
2. Press F1 (more) until 3: Phone Settings is shown.
3. Select 3 (Phone settings).
4. Press 1 (General).
5. Press F1 (Program)

The screen shows 1. Access Number, 2. Direction, 3. Retention

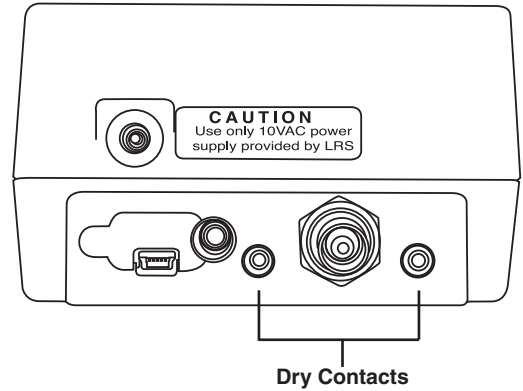
6. Select 3 (Retention):
 - ON (F1) to retain the phone number after paging
 - OFF (F2) to discard the phone number after paging.

Dry Contact

The Dry Contacts (2 contacts located around the antenna) are a contact or switch that is connected through a wire to the T7450A, for example: Door-Bell. This sensor can send a message to the pager an event happens (e.g., alarm if a door is opened). Default setting for the Contact Sensor is OFF. To program the Contact Sensor (Dry Contact):

1. Press SETUP.
2. Press MORE (F1) until asked for an authorization code.
3. Type 5-6-7-8-9.
4. Select 1: Dry Contact.
5. Select 1: Prog Contacts.
6. Select Contact 1: OR 2:.
7. The Screen will show if Contact Sensor is currently on or off:

- Press F2 to turn the function OFF.
 - Press F1 to turn the function ON.
8. If select ON, select for the sensor to set as:
- Press F4 for Normally Closed (this is the default setting).
 - Press F1 for Normally Open.
9. Select which device to be alerted:
- Press F1 for Pager.
 - Press F4 for Phone (A phone line must be attached.)
10. If selected Pager:
- Enter the pager number this input will page, press ENTER.



Enter a User Message:

- Press F2 to create a new message, use the 1-9 keys to enter the text, and then press ENTER to Save.
- Press F1 to edit the current message.

Press F4 to EXIT.

11. If selected Phone:

Enter the phone number this input will page, press ENTER.

Select option of recording a Voice Prompt now:

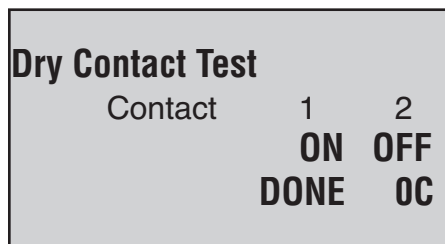
- Press F1 Yes to record a new Prompt. Press and hold any key to begin recording. Release key when finished.
- Press F4 No to keep the current Prompt. (Will use Prompt Recording from Voice Prompts Pg 11.)

Testing Dry Contacts

This feature allows the user to test the dry contact before installing.

To Test:

1. Press SETUP.
2. Press MORE (F1) until asked for an authorization code.
3. Type 5-6-7-8-9.
4. Select 1: Dry Contact.
5. Select 2: Test Contacts.



TEST ON DISPLAY

The screen will show the number of contacts (some older TX-7450A will have only 1 dry contact) and what state they are in.

Insert the device for the dry contact and leave the ends exposed.

If the Contact Sensor is Normally-Open and the contacts are separated (open), then the Contact Test will show ON. If the contacts are touching (closed) then the Contact Test will show OFF.

If the Contact Sensor is Normally-Closed and the contacts are touching (closed), then the Contact Test will show ON. If the contacts are separated (open) then the Contact Test will show OFF

In normal operation, an active contact in the "OFF" position would notify the pager.

6. When finished, press F2 for DONE.

Maintenance Functions

The following features are not normally adjusted unless directed by LRS.

User's Access Code

Many of the functions that adjust paging preferences are protected by an access code.

- To reduce tampering with critical settings the keypad is password protected
- The access code 5 6 7 8 9 allows you to enter many of the restricted programming screens.
- In some cases additional access codes may be required that can be obtained from LRS.

Set the System Time/Date

Time on Alpha and Numeric pagers may be reset each time batteries are replaced. The time/date may be reset at the individual pagers, but all pagers in use may be synchronized to the transmitter. The following prepares time/date information to send to these pagers.

Set the Date

Set the Time and Date

1. Press SETUP to enable the function menu.
2. Press MORE (F1) to find 3:Set Time/Date.
3. Select 3: Set Time/Date.
4. Press Set (F1).
5. Enter the time in hours and minutes.
6. Press Enter.
7. Press F1 (for AM) or F2 (for PM).
8. Enter date in MO/DA/YR (e.g. May 21, 2009 = 05/21/09).
9. Press Enter.

Send the Time and Date to a Pager

1. Be sure the Alpha or Numeric pagers are in operation.
2. Press SETUP to enable the function menu.
3. Press F1 (More) until the unit shows 3: Set Time/Date.
4. Press 3 to select Set Time/Date.
5. Set the time and date (if necessary – see above)
6. Press the number 1 (Send to Pager) and the pagers will update.

Review System Status

The system status is used to review the operational program settings in the unit.

To review the settings:

1. Press SETUP to enable the function menu.

2. Press F1 (More) one time. The unit shows the second option menu.
3. Press 1 to select System Status.
4. Press F1 (More) to review the settings.
5. Press F4 (Exit) when finished.

Maintenance Code

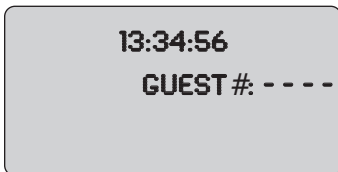
The maintenance function is only used at the direction of Long Range Systems. It is provided for resetting time-out functions inserted at the factory when replacement or evaluation transmitters are supplied. To use when a maintenance message is displayed:

1. Press SETUP to enable the function menu.
2. Press F1 (More) one time for display to show 2: Maintenance.
3. Press 2 to select Maintenance, then:
 - Press F2 (check) to determine how many days are set into the unit.
 - Press F1 (run) to enter the new access code (only available from LRS).

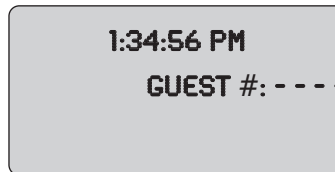
Time and Date Format

The Time and Date format viewed on the display can be set to either US or European readout. European date will view as DD/MM/YY; USA date will view as MM/DD/YY

EUROPEAN TIME ON DISPLAY



USA TIME ON DISPLAY



To set the Time and Date Format:

1. Press SETUP
2. Press MORE (F1) until asked for the authorization code.
3. Now type 5-6-7-8-9
4. Repeatedly press MORE (F1) to find 3: Time/Date Format on the menu.
5. Select Time/Date Format.
6. At Set Format:
 - Press F4 to set for European.
 - Press F1 to set for USA.

System ID Functions

Restaurant ID is used to prevent neighboring establishments using LRS equipment from interfering with each other. Operation of the ID finder to discover your system's ID and the ID Set function are described in the following paragraphs.

⚠ Caution: The ID set function should be used only when directed by LRS personnel. Misuse will cause paging problems!!!

ID Finder

If your transmitter does not page any of your pagers, it may be set for the wrong restaurant ID. If this is the case the transmitter can detect your restaurant ID and automatically reset the ID. To find the correct ID:

1. Remove 2 or 3 pagers or coasters from the charger or turn on some battery-powered pagers.
2. Press Setup.
3. Press "MORE" (F1) until asked for the authorization code.
4. Now type 5-6-7-8-9.
5. Press the MORE (F1) key the display shows 1: ID Finder.
6. Press the "1" key.
7. Press Begin (F1) and the unit will search all ID = 0 codes.
8. When it has paged all of the codes it asks, "Did Your Pager Work?"
 - If your pagers paged, press YES (F1) and the unit will be set to this ID.
 - If your pagers didn't page, press NO (F4) and the unit will try the next ID.

Setting Restaurant ID

The system ID is used to prevent interference when more than one paging system is in use in a small geographical area:

- The transmitter must be set to the new ID.
- The pagers/coasters must be converted to the new ID. An authorization code must be acquired from LRS.

Determine the ID that is necessary, then:

1. Press Setup.
2. Press "MORE" (F1) until you are asked for the authorization code.
3. Now type 5-6-7-8-9.
4. Press the MORE (F1) key the display shows 2: Set Rest. ID#.
5. Press the "2" key.
6. When the display shows Rest ID = X (X is 0, 1, 2,....etc.), press the desired number.
7. Press the Enter key.
8. When Finished, Press OK (F1).
9. After the transmitter ID is changed, program the individual pagers to match.

Messaging Mode

Normal Mode

This mode is default for the transmitter.

Message Only Mode

This feature allows the user to set a precanned message as a default message when paging alphanumeric pagers.

To turn Message Only Mode ON:

1. Press SETUP
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9

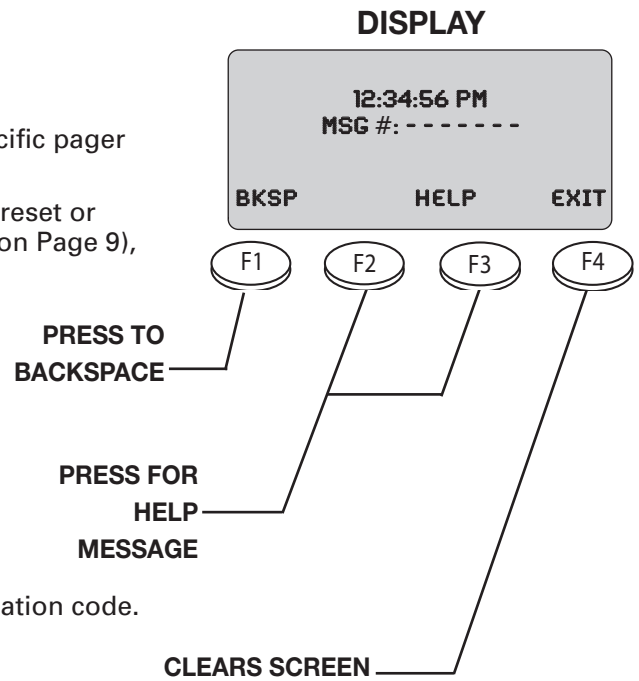
4. Press "MORE" (F1) until 2: Norm/MSG Only
5. Select 2: Norm/MSG Only.
6. Select 2: Message Only.
7. At Enter Pager num ID =, set to "911" or a specific pager number, press ENTER.
8. At Enter msg num MSG# =, enter the desired preset or custom message number (reference the table on Page 9), press ENTER.
9. Press F4 to exit.

To Use Message Only Mode:

- Enter the number of the message to be displayed on the pager. Then press ENTER.

To turn Message Only Mode OFF:

1. Press SETUP.
2. Press "MORE" (F1) until asked for the authorization code.
3. Type 5-6-7-8-9.
4. Press "MORE" (F1) until 2: Norm/MSG Only
5. Select 2: Norm/MSG only.
6. Select 1: Normal.
7. Press F4 to Exit.



Programming Pagers

Pager numbering and mode setup is used when renumbering and setting up individual pagers.

Individual Pagers



Note: *Rechargeable pagers can have their System IDs changed or their vibration turned on or off as a group.*

1. Determine the necessary Restaurant ID, and then set the transmitter to that ID.
2. Press Setup.
3. Press "MORE" (F1) until you are asked for the authorization code.
4. Now type 5-6-7-8-9.
5. Press the MORE (F1) key the display shows "3:Prog. Pgr. ID".
6. Press the "3" key.
7. Select the basic type of pager you are re-programming (Guest pagers or Staff pagers).

Guest Pagers

This procedure is repeated for each pager being programmed. Two charging bases are suggested for programming Coasters, Pizza pager, and Lobster Call.



Note: : *Programming Guest Pagers requires an authorization code.*

1. At the Menu, select 1: Guest Pagers.
2. Enter the programming authorization code obtained from LRS (once received this step will no longer be required).
3. Select Paddle Pager.
4. Select Vibe ON or Vibe OFF.
5. At Enter ID --- enter the number for the pager to be (e.g., 41).
6. Press Enter.
7. Remove the pager from the charger. When flashing stops, press Enter.
8. The pager will slowly brighten and dim to off to indicate it is being programmed. When it is finished, put the pager back into its slot.
9. Repeat steps 1 through 8 for the remaining pagers.
10. When finished, remove all of the pagers from the charging base and page each one. Reprogram any that do not page.
11. When Finished, Press EXIT (F1).

Guest Alpha Coasters

This procedure is repeated for each pager being programmed. Two charging bases are suggested for programming Alpha Coasters.



Note: *Programming Guest Pagers requires an authorization code.*

1. Put all coasters to be programmed on one charger base, leave the second base empty.
2. At Select Type, select Guest.
3. Enter the programming authorization code obtained from LRS (once received this step will no longer be required).

4. Select 1: Coaster.
5. Select 2: Alpha.
6. At Enter ID --- enter the number for the pager to be (e.g., 41).
7. Press Enter.
8. At All Page --- enter the all call number for the pager to be programmed.
9. Press Enter.
10. Remove the coaster from the charger. The pager will beep four times to indicate it is being programmed and indicate the System ID and Number for primary number, all call and programming. The last entry is the Encryption status (see encryption programming/paging). When it is finished, place on charger. Example:
 - i. [0]123 prg Single
 - ii. [0]911 prg All Page
 - iii. [0]0 prg System
 - iv. prg encryption none (alt 128 key)
11. Repeat steps 2 through 10 for the remaining coasters.
12. When finished remove all of the coasters from the charging base and page each one. Reprogram any that do not page.
13. When Finished, Press EXIT (F1).

Staff Pagers (Star Type)

This procedure is repeated for each pager being programmed. Pagers may be replaced into the same slot in the charger.

1. At the Menu, select 2: Staff.
2. Select 1: Star Pager.
3. At Enter ID --- enter the number you wish the pager to be (normally less than 50).
4. Press Enter.
5. Remove the pager from the charger. When the flashing stops, press Enter again.
6. The pager will slowly brighten and dim to off to indicate it is being programmed. When it is finished return the pager to its charging base.
7. Repeat steps 1 through 6 for the remaining pagers.
8. When finished remove all of the pagers from the charging base and page each one. Reprogram any that do not page.
9. When Finished, Press EXIT (F1).

Staff Pagers (Battery Operated Alpha Pagers)

This procedure is repeated for each pager being programmed.

- Only LRS pagers can be programmed from the transmitter.

1. Turn all of the pagers OFF.
2. At the Menu, select 2: Staff.
3. Select 3: Alpha.
4. At Enter ID --- enter for the pager to be programmed.
5. At Enter All Page --- enter the all call number for the pager to be programmed (normally 911).
6. Press Enter.
7. Turn on the pager. It will vibrate and/or beep.

8. When the vibration/beeping stops, press Enter again.
9. The pager will beep four times to indicate it is being programmed and indicate the System ID and Number for primary number, all call and programming. The last entry is the Encryption status (see encryption programming/paging). When it is finished turn the pager OFF. Example:
 - [0]123 prg Single
 - [0]911 prg All Page
 - [0]0 prg System
 - prg encryption none (alt 128 key)
10. Repeat steps 2 through 9 for the remaining pagers.
11. When finished turn on all of the pagers and page each one. Reprogram any that do not page.
12. When Finished, Press EXIT (F1).

Staff Pagers (Rechargeable Alpha Pagers)

This procedure is repeated for each pager being programmed.


- Only LRS pagers can be programmed from the transmitter.
 - The transmitter must be set to Alpha mode to program Alpha pagers.
1. Place pager in charger.
 2. At the Menu, select 2: Staff.
 3. Select 3: LRS Alpha.
 4. At Enter ID --- enter for the pager to be programmed.
 5. At Enter All Page --- enter the all call number for the pager to be programmed (normally 911).
 6. Press Enter.
 7. Remove the pager from the charger. It will vibrate and/or beep.
 8. When the vibration/beeping stops, press Enter again.
 9. The pager will beep four times to indicate it is being programmed and indicate the System ID and Number for primary number, all call and programming. The last entry is the Encryption status (see encryption programming/paging). When it is finished turn the pager OFF.

Example:

 - [0]123 prg Single
 - [0]911 prg All Page
 - [0]0 prg System
 - prg encryption none (alt 128 key) [See Alpha Encryption – page 29.]
 10. Repeat steps 2 through 9 for the remaining pagers.
 11. When finished turn on all of the pagers and page each one. Reprogram any that do not page.

Program Alpha Pager Groups

- Only LRS pagers can be assigned groups and be programmed from the transmitter.
 - The transmitter must be set to Alpha mode to program alpha pagers.
1. Determine the System ID that is necessary, then set the transmitter to that ID.
 2. Press Setup.
 3. Press "MORE" (F1) until you are asked for the authorization code.
 4. Now type 5-6-7-8-9.
 5. Press the MORE (F1) to find and select 3: Program Groups.
 6. Enter the authorization code acquired from LRS.

7. Select F1 (Yes) to enable group paging (if it is off).
 8. When the display shows "Program Now?" press the "F1" key to enter group page programming.
 9. Select the groups the pager you are programming will be in.
-  **Note:** A pager can be in up to 5 groups numbered 1 through 99
10. Press F4 (Next)
 11. Enter the group number(s) for the pager and press Enter.
 12. Read the message and press Enter.
 13. Turn the pager off then on. When it stops beeping, press Enter.
 14. The unit will wait 5 seconds and send out the signal. Read the screen. If the pager beeped 5 times press F1 (Yes), if not press F4 (NO) and do again.
 15. Continue this procedure with the remaining pagers.

Alpha Encryption

- Only LRS pagers can be encrypted and be programmed from the transmitter.
 - Encryption does not change the pager numbering.
1. Press Setup.
 2. Press "MORE" (F1) until you are asked for the authorization code.
 3. Now type 5-6-7-8-9.
 4. Press the MORE (F1) to find and select 2: Encryption.
 - Select 1: On/Set to enable encryption and to set new encryption key.
 - a. Enter 16 double digits separated by colons to set the code (Note: all f will disable the key.)
 - b. Example: 11:12:13:44:11:11:11:11:11:11:11:11:11:11:11:11
 - Select 2: Off to disable encryption.
 - Select 3: Transmit key to send the current encryption key to pagers.
 5. When the display shows "Transmit Key Now?" press the "F1" key to send key.
 6. Turn the pager off then on. When it stops beeping, press Enter. (Note: more than 1 pager can be encrypted at once.)
 7. The unit will wait 5 seconds and send out the signal. Read the screen it will show "prg encryption none" (or 128 bit key).
 8. Continue this procedure with the remaining pagers.

Additional Alpha Functions

1. Press Setup.
2. Press "MORE" (F1) until you are asked for the authorization code.
3. Now type 5-6-7-8-9.
4. Press the MORE (F1) to locate and select 3: Alpha Function.



Note: For sending custom or preset message to Alpha Coasters option 8: Guest Prompt must be enabled.

- 1: Welcome Msg – allows customizing the turn on message on the alpha pager (e.g., Teds Pager)
- 2: Group Name – allows naming the groups in group paging (e.g., 1 = Sales)
- 3: Time Format – allows changing the time and date display to 24 hour clock and 4: date order.
- 4: Button on/off – disables the buttons on the pager so that users cannot turn their pager off or scroll through previous messages.
- 5: Groups – allows enable or disable of group paging.
- 6: Vibe Strength – allows changing the level of the vibration strength.
- 7: Guest MSG # – sets to use a preset or custom message when paging.

- 8: Guest Prompt – enable or disable a guest message prompt.
- 9: TX Time & Date – enables or disables the transmitter from automatically sending the Time and Date to the pagers.
5. Press EXIT when done.

Set Pager Vibration ON/OFF

Rechargeable pagers can have their vibration turned on or off as a system.

1. Be sure all the pagers are in the charger.
2. Press Setup.
3. Press “MORE” (F1) until you are asked for the authorization code.
4. Now type 5-6-7-8-9.
5. Press the MORE (F1) key the display shows 2:Prog. Vib.
6. Press the “2” key.
7. Unplug the charger power supply.
8. The pagers will vibrate and flash.
9. At the “Program Vibration: screen on the transmitter, press ON (F1) to turn on vibration, OFF (F2) , or EXIT (F4)..
10. The pagers will slowly brighten and dim to off to indicate they are being programmed.
11. .When finished, plug the charger power supply back in.

Station ID

Station ID is often confused with Restaurant ID. This function is used where more than one station of the same establishment may be paging staff pagers. The indicators on the pager will show this code. To set a different station number:

1. Press SETUP.
2. Press “MORE” (F1) until you are asked for the authorization code.
3. Now type 5-6-7-8-9.
4. Repeatedly press F1 until you see 1: Prgm Station ID on the menu.
5. Press 1. The display will show the current station number for the pager to display (default is 1).
6. Press a number to use (0 – 9).
7. Press F1 (OK) to change the code or F2 (Exit) to return without change.

Adjust Transmit Power

The range may be increased or decreased from the keypad. The power levels are 1 through 5. Find a power level using Range Test that best suits your restaurant and leave it that way. Default from the factory is power level 3. To set the power level:

1. Press SETUP.
2. Press “MORE” (F1) until you are asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 2: Program TX Pwr on the menu.
5. Press 2.
6. Set the required power level (from 1 through 5).
7. Press F1 (OK).

Set ID Span

In very large systems, up to 9999 Guest pagers can be paged. To do this, ID Span is required. This function disables normal System IF functions except for Staff Paging and allows the programming of non-Alpha Guest Pagers from 1000 to 9999. To enable ID Span:

1. Press SETUP.
2. Press "MORE" (F1) until you are asked for the authorization code.
3. Type 5-6-7-8-9.
4. Repeatedly press F1 until you see 1: Set ID Span on the menu.
5. Press 1.
6. Select "ON" (F1) or "OFF" (F2).
7. Press F4 (EXIT).

Range Test

This allows you to see where you can and cannot be paged. Although the range may vary slightly during busy times, this allows you to get a rough idea of where guests can roam. **DO NOT PERFORM A RANGE TEST WHEN GUESTS HAVE PAGERS BECAUSE THEY WILL FLASH ALL AT ONCE.** To begin Range Test:

1. Press SETUP.
2. Press "MORE" (F1) until you are asked for the authorization code.
3. Enter 5-6-7-8-9.
4. Continue pressing MORE (F1) until you see 2: Run Range Test.
5. Press 2 to begin running the Range Test.
6. Take 2 or 3 charged coasters and begin walking around the restaurant. The pagers should flash about once every 3-4 seconds.
7. The point where the pager does not flash consistently is the maximum range. To increase (or decrease) range adjust the power level, add a repeater, or add a high gain antenna. Call LRS for assistance.

Repeat Delay

When using a repeater it may be necessary to add a delay between pages when paging multiple pagers to allow the repeater time to repeat the signal and detect the next one. To add repeat Delay:

1. Press SETUP.
2. Press MORE (F1) until asked for an authorization code.
3. Enter 5-6-7-8-9.
4. Press MORE (F1) to find and select 1: Repeat Delay.
5. Select ON (F1) to enable or OFF (F2) to disable.
6. Select DONE (F4) when finished.

System Specifications

Notice - Operation is subject to the following:

- This device may cause interference.
- This device will accept any interference including interference that may cause undesired operation of the unit.

Notice - To reduce potential radio interference to other users, the antenna type and gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than required for successful communication.

Transmitter

Required voltage: One 110/220V outlet for the pager keypad.

Operating Frequency: 420-470MHz

Radiated Power <4900 micro-volts/meter

Operating Range: Dependent upon pagers used

Battery Powered Pagers

Required voltage: One AAA Alkaline battery for the pager.

Rechargeable Pagers

Required voltage: (1) 110/220V outlets for pager charging base

Batteries: Nickel Metal Hydride (NiMH). Rechargeable. Lifetime of Batteries: Approximately 3-5 years.

Battery life of pager: Approximately 12 - 48 hours (depends on usage). Recharge time: 24 hours minimum from completely "dead".

Troubleshooting

Transmitter Functions

Pager Doesn't Receive Pages

1. Be sure that the pagers are charged and/or turned on.
2. Be sure transmitter power is plugged in and display is lit.
 - If display is blank, check power supply as described below.
 - If display is lit, check the transmit functions described below.
3. Be sure transmitter antenna is connected.

Cell Phones or WAPs Do not Receive Pages

1. Be sure that transmitter is set to dial out with or without an initial number (e.g. dial 9 before dialing number). See page 12.
2. Be sure that the line used for dialing out is plugged in and working.
3. Be sure the prompts for WAP (page 12) and the cell phone message (page 11) have been recorded.

Check Power Supply

1. Be sure the wall socket the power supply is plugged into is working (plug some other device into it and see that it works properly).
2. Be sure the wire that plugs into the side of the transmitter is plugged in securely (try plugging it into the connector on the other side also).
3. If you are using rechargeable pagers, try the power supply that is powering them into the transmitter.
 - If the transmitter powers up from the other supply, you have probably blown the power supply. Acquire another supply from Long Range Systems.
 - If the transmitter does not power up from a known good power supply, call Long Range Systems for a replacement or repair.

Transmitter Functions Check

Common problems and their solutions are described below.

1. Please remember that only 30 pagers can be on one 10V power supply. If you have more than 30 pagers, you should either purchase another 10V power supply or upgrade to a high capacity 10V power supply (call Long Range Systems)
2. You probably have a jumper wire that is not connected. Look on the side of your chargers and verify all wires are connected properly. If they are connected, then you may have dirty pager contacts. Using a damp rag, clean the 2 metal contacts on the back of each pager.
3. The cleaning crew may be disconnecting the pagers after hours. You may also have the pagers on a circuit that automatically shuts off after hours. Please be sure that all pagers are plugged in and charging when not in use.

Battery Powered Pagers

Pager Doesn't Receive Pages:

1. Be sure the pager is turned on and that the battery is good.
2. If pagers do not turn on, replace battery and retry.
3. If pagers do turn on, and still do not receive page, check transmitter.

Rechargeable Pagers

Charge Lights do not come on:

1. When placed in charger, do all pagers have a single red charge light lit up?
 - If no pagers have a charge light, skip to 2.
 - If only some pagers have a charge light that is lit, skip to 3
 - If all pagers have the charge light lit, skip to 5.
2. You have probably blown the power supply (call Long Range Systems).
3. Please remember that only 60 Coasters, 25 Paddle pagers, 30 Lobster, or 30 Pizza Pagers can be on one 10V-power supply. If you have more, call Long Range Systems.
4. You probably have a jumper wire that is not connected. Look on the side of your chargers and verify all wires are connected properly. If they are connected, then you may have dirty pagers contacts. Using a damp rag, clean the 2 metal contacts on the back of each pager.
5. The cleaning crew may be disconnecting the pagers after hours. You may also have the pagers on a circuit that automatically shuts off after hours. Please be sure that all pagers are plugged in and charging when not in use.

Service Questions and Answers

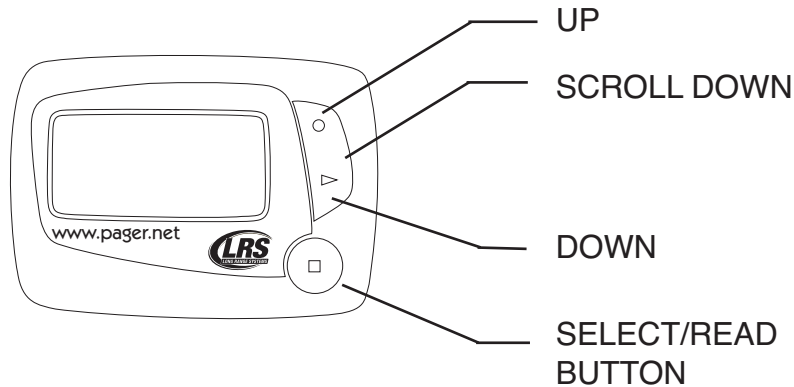
Should your paging system ever fail or should you need additional paging supplies, call Long Range Systems at (800) 437-4996 (24/7 days a week)

For weekend or night emergencies:

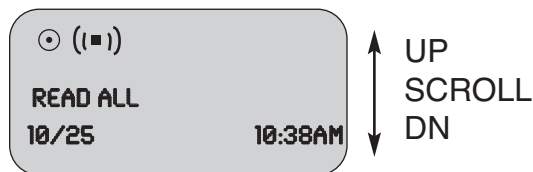
- Long Range Systems has 24/7 live technical support available.
- Please keep in mind that options are limited over the weekend.

Pager Instructions

Using the 4-Line Alpha Numeric Pager



Menus



Selecting functions

1. From Read All screen, press Up (or Dn) Scroll button until desired selection displays
2. Press Read/Select button to select item
3. Press Up (or Dn) Scroll button to choose/adjust
4. Press Read/Select to confirm/set

Power On/Off

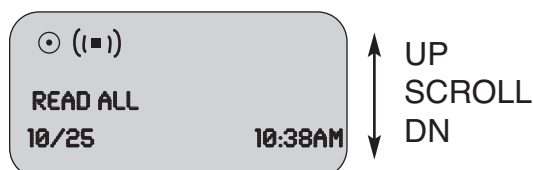
Set ON (if unit is off)

1. Press and hold Scroll Up until YES/NO shows.
2. At "Power ON?" use Up (or Dn) Scroll button to select YES
3. Press Read/Select button to set

Set OFF

1. Using the Up (or Dn) scroll button scroll until display shows "Power OFF?"
2. Press Read/Select button to set power on/off
3. At "Power OFF?" screen, use Up (or Dn) Scroll button to select YES
4. Press Read/Select button to set

Read Message



- Messages are displayed upon receipt.
- Press Read/Select to display.

To review stored messages:

1. Select "Read All?"
2. Press Read/Select to display messages and time stamps
3. Use the Up (or Dn) Scroll button to scroll through messages

Delete Messages

1. Using the Up (or Dn) scroll button, scroll until display shows "Delete All?"
2. Press Read/Select
3. Use the Up (or Dn) scroll button to select Yes or No
4. Press Read/Select button to confirm

Time/Date Set

1. Using the Up (or Dn) scroll button scroll until display shows "Set Time/Date"
2. Press Read/Select to set time/date
3. Press Up (or Dn) scroll button to set each time or date segment and press Read/Select to move through the segments

Set Contrast

1. Using the Up (or Dn) scroll button scroll until display shows "Set Contrast"
2. Press Read/Select
3. Use the Up (or Dn) scroll button to adjust
4. Press Read/Select to confirm

Auto ON/OFF

1. Using the Up (or Dn) scroll button scroll until display shows "Auto ON/OFF"
2. Press Read/Select to set auto on/off
3. Use the Up (or Dn) scroll button to select On or Off
4. Press Up (or Dn) scroll button to set on/off time and press Read/Select to move through the segments

Set Key Tone On/Off

1. Using the Up (or Dn) scroll button scroll until display shows "Set Key Tone"
2. Press Read/Select to set key tone on/off
3. Use the Up (or Dn) scroll button to select On or Off
4. Press Read/Select to set

Select Alert Mode

1. Using the Up (or Dn) scroll button scroll until display shows "Set Alert Mode"
2. Use the Up (or Dn) scroll button to select Beep, Vibe, or Both
3. Press Read/Select to set:

Beep - Use the Up (or Dn) scroll button to select:

- Select Beep Type - Loud or Soft and press Read/Select to set
- Set Alert Time (seconds) and press Read/Select to set

Vibe - Use the Up (or Dn) scroll button to select:

- Set Vibe strength - Strong or Weak and press Read/Select to set
- Set Vibe Pulse - Cnst, P1, P2 or P3 and press Read/Select to set
- Set Alert Time (seconds) and press Read/Select to set

Both - Use the Up (or Dn) scroll button to select:

- Set Vibe strength - Strong or Weak and press Read/Select to set
- Set Alert Time (seconds) and press Read/Select to set

Battery

The RX-E 4-Line Alpha pager uses 1 AAA Battery.

Programming

To program the pager see pg. 27

Using the Star Pager



Charging

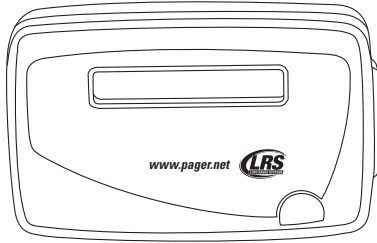
Any rechargeable pager will require use of an LRS charger.

1. Place the pager in the charger.
2. Allow unit to fully charge overnight.
3. Remove from charger, and pager will vibrate and light all lights as a verification that it is working.
4. Replace the pager in the charger at the end of each day.
 - Star Pagers uses the charger 9 (CH-R9)

Programming

To program the Staff Star Pager, see pg. 27

Using the SP5 1-Line Rechargeable Alpha Numeric Pager



Charging

The SP5 uses the Charger 5 (CH-R5)

1. Place the pager in the charger
2. Allow unit to fully charge overnight
3. Remove from charger, pager will vibrate or beep to show it is working
4. LCD will show the pager's ID
5. Replace the pager in the charger at the end of each day

Menus

To access the vibrate/contrast menu, remove the pager from the charger. While vibrating or beeping, press and hold the Select button for 8 seconds. This top-level menu will display:



If you PRESS and RELEASE the SP5 pager button the menu will change to:



To exit this menu wait 8 seconds.

To re-enter the vibrate/contrast menu at any time, reset the pager, and then hold the SP5 pager button.

Vibe

To set the Vibration Level

1. Enter the vibrate/contrast menu as described above.
2. Highlight the Vibe selection then PRESS and HOLD the SP5 pager Button until the screen shows.



3. Press or hold the Select Button to the desired vibration level. The level will rise to max, Release the Select Button and press or hold again until the level goes to minimum or desired level.
4. To exit, wait 8 seconds. And the pager will go back to the vibrate/contrast menu.



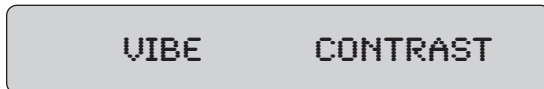
Contrast

To set the Contrast Level

1. Enter the vibe/contrast menu as described above.
2. Highlight the Contrast selection then PRESS and HOLD the SP5 pager Button until the screen shows.



3. Press or hold the Select Button to the desired Contrast. The level will increase to max (NOTE: screen could be dark and hard to read), Release the Select Button and press or hold again to change the level back towards the minimum or to desired contrast.
4. To exit, wait 8 seconds. And the pager will go back to the vibe/contrast menu.



5. To exit this menu wait 8 additional seconds.

Settings

To view the current pager settings

1. Remove pager from the charger or reset on the T9601, T9100, or T9101 reset terminals.
2. Press the Select Button repeatedly to scroll through the settings:
 - C1: [System ID number] and Pager ID number
 - C2: [System ID number] and All Page number
 - C3: [System ID number] and System ID number
 - G: Group number
 - Enc: Encryption enabled (128) or none
 - Ver: Current Firmware Version
3. To exit, wait 8 seconds.

Messages

The pager stores the last 5 received messages.

To view the messages:

1. Press the Select Button once.
2. Messages 2 lines in length will show a > symbol on the end of the first line and a < on the second line. Messages over 2 lines in length, the middle lines will show "< the next line of the message >".
3. Press the Select Button to continue scrolling forward through the message or messages.

Time

Pager will display the current time. The T7450A transmitter automatically updates this feature. If the time does not appear, a flashing star will appear on the right side of LCD to show pager is operational.

Programming

To program the pager, see pg. 28

Using Non-Alpha Guest Pagers

Programming

To program the Guest Pagers, refer to pg. 26

Charging

Any rechargeable guest pager will require use of an LRS charger.

1. Place the guest pager in the charger. For 15 Coasters, 10 Pizza pager, and 10 Lobster call pagers. Do not stack more than 10 pagers at a time on a Charger.
2. Allow unit to charge fully overnight.
3. Remove from charger, and pager will vibrate, beep, and light all lights as a verification that it is working
4. Replace the pager in the charger at the end of each day.

The pagers all use different chargers:

- Coasters use the Charger 8 (CH-R8)
- AdverTeasers and Star Pagers use the Charger 9 (CH-R9)
- Lobster Pagers use the Lobster Charger (CH-LP)
- Pizza Pagers use the Pizza Charger (CH-PZ)

Using Alpha Coaster Guest Pagers

Programming

To program the Alpha Guest Pagers, refer to pg. 26

Charging

Any Alpha Coaster pager will require use of an LRS coaster charger.

1. Place the pager in the charger. 15 pagers at a time on a Charger.
2. Allow unit to charge fully overnight.
3. Remove from charger, and pager will vibrate, beep, and light all lights as a verification that it is working
4. Replace the pager in the charger at the end of each day.
 - The Alpha Coasters use the Charger 8 (CH-R8)

Cleaning & Charging Instructions For LRS Paging Equipment

Cleaning:

LRS pagers are made from industrial-strength, polycarbonate material. However, this material is susceptible to hairline cracking if non-approved cleaners are used. When cleaning LRS pagers, we recommend only using ISOPROPYL ALCOHOL-BASED CLEANERS.

To clean the equipment:

1. Take a clean rag and an isopropyl-alcohol based cleaner
2. Soak the clean rag with the isopropyl alcohol cleaner
3. Wipe down the pagers or equipment.

Cleaning equipment with any other non-approved cleaners can weaken plastic and cause hairline cracks. Pagers and equipment that are cleaned with unapproved cleaners and suffer cracking will not be covered under warranty.

Do not submerge any LRS paging equipment in any type of liquid as this will also damage the equipment and is not covered under the standard warranty.

Charging:

Place rechargeable pagers on the charger and let them charge for 8 hours prior to first use.

Rechargeable pagers should be kept on charge even during extremely long periods of inactivity.

Only 10 VAC power supplies should be used with LRS chargers and transmitters. DC power supplies will cause damage to equipment that is not covered under the standard warranty.

Should you have any questions, please contact the LRS Customer Service Department at 800.437.4996.

Warranty

Long Range Systems, Inc. warrants this product against any defects that are due to faulty material or workmanship for a two-year period after the original date of consumer purchase. This warranty does not include damage to the product resulting from accident, misuse or improper electrical connection. If this product should become defective within the warranty period, we will repair or replace it with an equivalent product, free of charge. LRS will return your product via UPS ground shipping. All warranty claims must be initiated through our customer service department.

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EU DECLARATION OF CONFORMITY

We, Long Range Systems hereby declare under our sole responsibility that the T7450A paging transmitters and on-site pagers comply with the essential requirements in the European RE&TTE Directive 1999/5/EC of the European Parliament of the Council of 9 March 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity. The following standards were utilized:

ETS 300 224: 1998

EN 301 489-2: 2002

EN61000-3-2: 1998

EN 61000-3-3: 1995

EN 60950: 1992 with A1, A2, & A3.

XU-0003 120209