

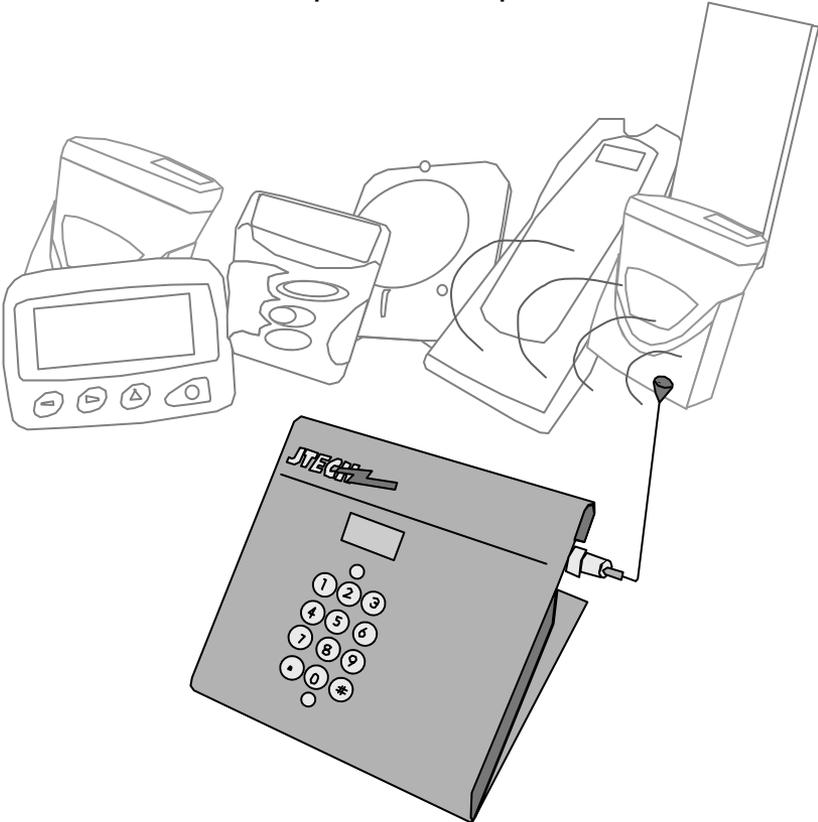
Installation, Programming and Operator Guide  
Part Number 320115B1



# Premises Pager System<sup>®</sup>

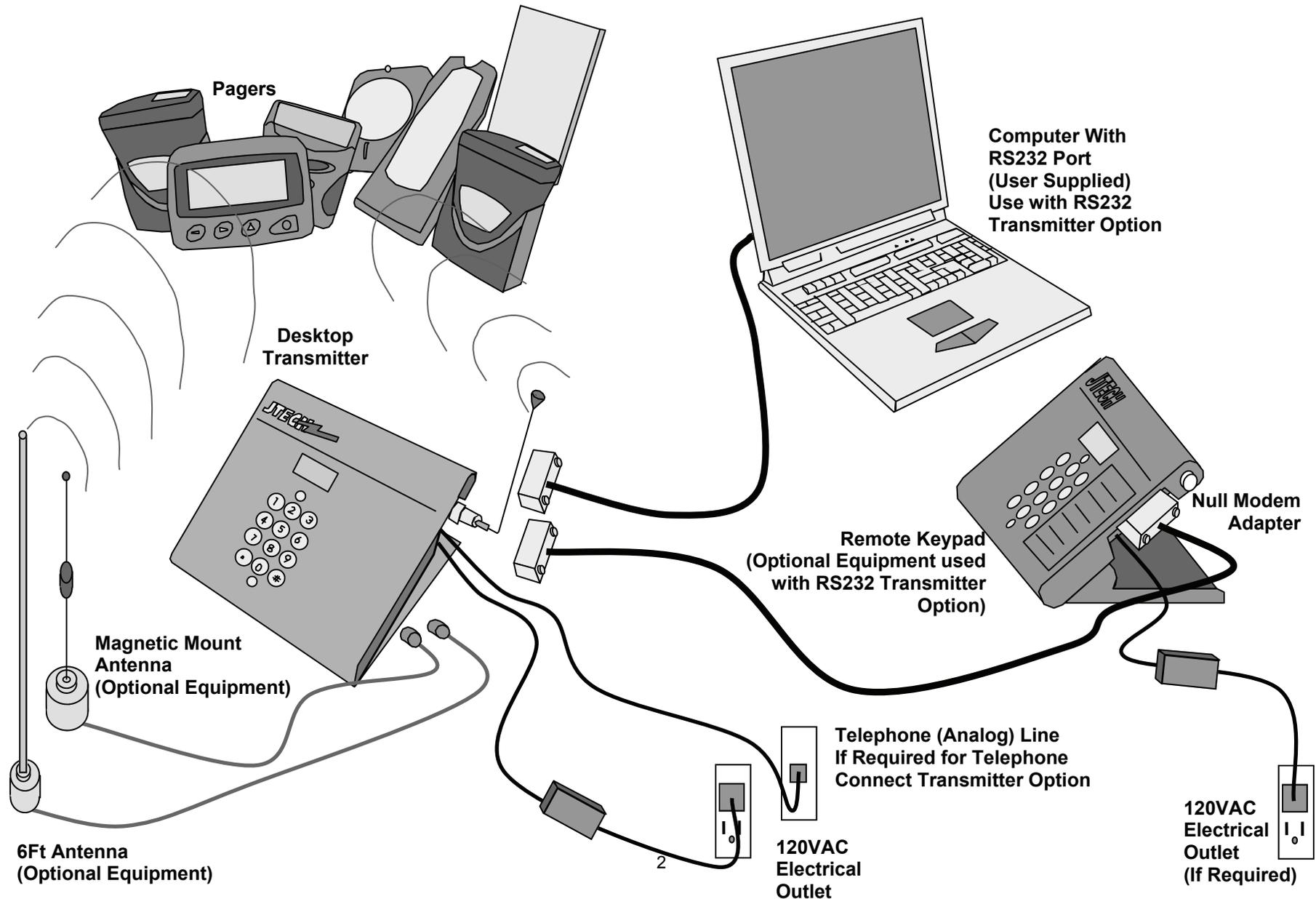
2600 Desktop Transmitter

2601 Desktop With Telephone Connect



**Introduction:**

Congratulations on your purchase of the Premises Pager Model 2600 or 2601 System. Please take a few minutes to review this manual prior to installing and operating your system.

**2600 & 2601 Series System Components:**

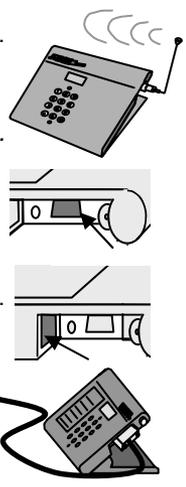
Please inspect the System upon receipt. If the contents appear to be damaged, notify the shipper immediately to file a claim and notify JTECH Customer Care. If components are missing, contact JTECH Customer Care.

If you have any questions or need assistance, please call JTECH Customer Care at 800-321-6221 or 561-997-0772, option 6.

**System Components:**

**Desktop Transmitter:**

- Pages *Vibe, Tone, Flash, Numeric* and *Alphanumeric Pagers*.
- Sends numeric pages to *Numeric* and *Alphanumeric Pagers*.
- **RS232 (If Connected to a users Computer):**
  - Pages *Vibe, Tone, Flash, Numeric* and *Alphanumeric Pagers*.
  - Sends numeric pages to *Numeric* and *Alphanumeric Pagers*.
  - Sends alphanumeric pages to *Alphanumeric Pagers*.
  - User software and interface development is required.
- **Phone Connect (Model 2601 Only):**
  - Pages *Vibe, Tone, Flash, Numeric* and *Alphanumeric Pagers*.
  - Sends numeric pages to *Numeric* and *Alphanumeric Pagers*.
- **Remote Keypad and Cable (Optional):**
  - Attaches to the *Transmitter* to page remotely, up to 50ft away from the *Transmitter*.

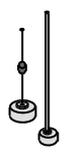


• **2600 - 2601 Transmitter Specifications:**

Display: 2 Line x 8 Character Alphanumeric LCD  
 Operating Voltage: 13.5VDC 2.4A 120VAC power adapter  
 Power Output: 0.1-2 Watts - adjustable using 5 levels.  
 Channel Spacing/Deviation: 12.5KHz / ±4.25KHz  
 Modulation/Protocol: FSK 512 BPS  
 Transmit: 512 Baud  
 RS232 Communications: 1200 Baud  
 Antenna Port/Type: 50 ohm BNC / Rotating whip (standard)  
 Operating Frequency: UHF synthesized 450-470 MHz. (standard)  
 Temperature Stability: -22°to 122°F (-30 to 50°C) at better than 5 ppm  
 Size 8"x7.13"x1.31"(203mm x 181mm x 233mm)  
 Weight 3.2 Lbs (1.45Kg)  
 Certifications: FCC Part 15. IC

• **Range:**

- Maximum *Transmitter* range is 1½-2 miles (2.4-3.2Km).
- Range will vary, depending on each location's environment.
- Increase maximum *Transmitter* range with an optional remote *Magnetic Mount Antenna, 6ft Antenna* or *Extended Range Kit (FCC license required)*.



**Computer (For use with RS232 and is user supplied):**

- *Computer* must have a *RS232* port with 1200 baud ability.
- Program using Visual Basic, etc. to control *Pagers*.



**Pagers:** The table shows the type of information that can be sent and which *Pagers* can receive it.

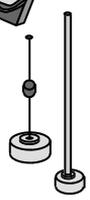
Type of Page Information	Sent By			
	Keypad	RS232	Remote Keypad	Phone Connect
<i>Vibe, Tone and Flash (Guest Pager)</i>	X	X	X	X
<i>Numeric</i>	X	X	X	X
<i>Alphanumeric</i>		X		



**Optional Antenna: Requires FCC approval and licensing for use.**

**Magnetic Mount Antenna with 12ft Cable:** Is a indoor use only *Antenna*, which has a magnetized base for mounting to steel or iron.

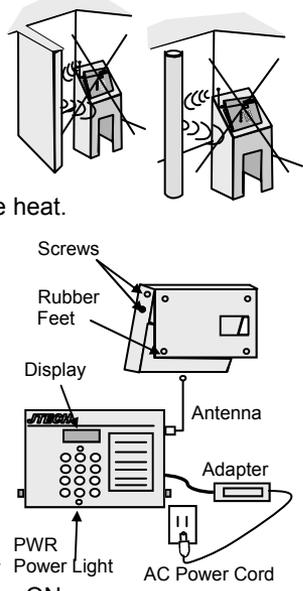
**6ft Antenna and 25ft Cable:** Is a indoor/outdoor use *Antenna* that can be mounted to any stable surface.



**Extended Range Antenna Assembly:** Is a indoor/door use *Antenna* and a *35 Watt Power Amplifier, Power Supply* and *50 or 100ft Cable*. It increases the output of the *Transmitter* to 35 watts maximum and range of up to 5 miles.

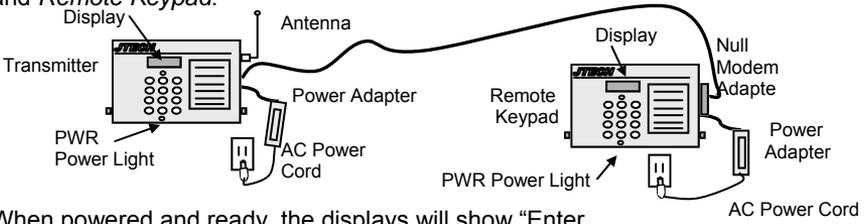
**Installing the Transmitter:**

- The *Transmitter* can be surface mounted, used on a on a counter or desk top or wall mounted.
- The best location is in clear view of the paging area.
- Walls, pipes, ducts, mirrored glass, etc. may weaken or misdirect signals.
- Locate the *Transmitter* away from liquids and extreme heat.
  1. To secured the *Transmitter* to a counter or wall:
    - A. Remove the 2 screws from each side of the housing and 4 rubber feet in the base plate.
    - B. Secure the base plate as needed. Mounting hardware is user supplied.
    - C. Attach the housing to the base plate.
  2. Change the angle of the *Transmitter* by adjusting the position of the base.
  3. Con nect the *Antenna* and point upward (vertical).
  4. Plug in the *AC Power Cord* into the *Adapter*.
  5. Plug the *Adapter* into the *Transmitter*.
  6. Plug the *AC Power Cord* into a 120VAC outlet.
  7. When powered and ready, the *Transmitter* display will show "Enter Pager #" and the *PWR Light* will be ON.



**Remote Keypad Connection And Operation (Optional Equipment):**

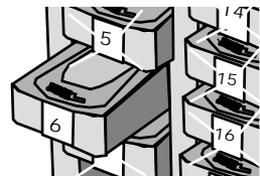
1. Attach one end of the *25ft RS232 Cable* to the *Transmitter* and the other to the *Null Modem Adapter* on the *Remote Keypad*.
2. Plug the *Adapter* into the *Remote Keypad*.
3. Plug the *Adapter* into the *Transmitter*.
4. Connect all cables and the *Antenna* before applying power to the *Transmitter* and *Remote Keypad*.



5. When powered and ready, the displays will show "Enter Pager #" and the *PWR lights* will be ON.

**Paging Using Rechargeable Guest (Vibe, Tone and Flash Pagers):**

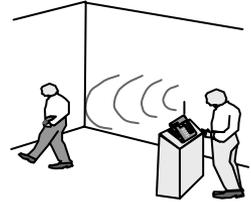
1. Remov e the *Pager* you wish to page from the *Charging Rack*.
2. Enter the number of the *Pager* you wish to page on the *Transmitter* or *Remote Keypad*.
3. Press # to send the page.
4. The *XMIT* light on the *Transmitter* will turn ON, confirming the page is being sent. If using a *Remote Keypad*, the *Keypad XMIT* light does not ON.



- See "Enter Pager #" Menu Functions for more information.

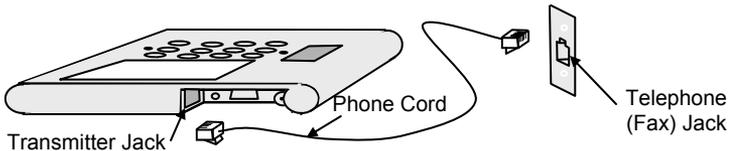
**Range Testing the Transmitter**

1. Once installed and powered, the *Transmitter* will display "Enter Pager #".
2. The red (PWR) light at the bottom of the *Transmitter* keypad will be ON.
3. Enter **9990#** on the keypad.
4. The *Transmitter* sends a page every 5-6 seconds to all *Pagers* placed in Group 99 or *Pager* number 1 (factory defaults). See Dynamic Group for additional information. Use *Guest Pagers* only, *Wait Staff Pagers* cannot be used for range testing this *Transmitter*.
5. *Pagers* need to be fully charged or have fresh batteries installed.
6. Slowly walk the surrounding area with the *Pager*.
7. Check that the *Pager* continues to alert with a tone.
8. Changing the *Transmitter* location or moving surrounding objects may effect range results.
9. If the *Pager* no longer alerts, walk back slowly toward the *Transmitter* until the *Pager's* alert begins again. Mark this spot as the maximum range of the *Transmitter* in this direction and continue to check the remaining area.
10. Press any button on the keypad to end the range test.

**2601 Transmitter Phone System Connection And Operation (If Required):**

**Installation:** Requires a dedicated analog telephone line which can "hear" the tones from a push button telephone.

1. Connect the phone cord to the jack on the side of the *Transmitter*.
2. Plug the other end into an jack wired to a dedicated telephone (fax) line.
3. If 'continuous' DTMF tone is available, change *Transmitter* settings:



- A. For 'continuous' DTMF enter \* # 577.
- B. For 'short burst' DTMF enter \* # 576 (factory default).
- Ignore the display screen during this procedure.

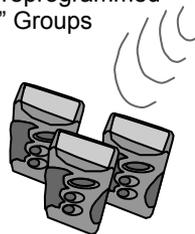
**Paging a Numeric Pager using the telephone:**

1. Pick up the phone and listen for the dial tone.
2. Dial the phone number that has been assigned to the *Transmitter*.
3. Listen for a beep from the telephone that confirms the *Transmitter* is ready.
4. Within 8-10 seconds, use the telephone keypad:
  - a. Enter the *Pager* number (up to 4 digits).
  - b. Press the \* key.
  - c. Enter a numeric message, if desired (16 digits maximum).
  - d. Press the # key to send the page.
5. A beep will be heard on the phone confirms the message was sent.
6. Hang up the telephone.



**Group Paging using the telephone:** Group information can be preprogrammed into the *Pagers* at your Distributor's site or JTECH. "Dynamic" Groups can be programmed by the user. See "Add a *Pager* to a Dynamic Group" on page 14 for more information.

1. Pick up the telephone and listen for the dial tone.
2. Dial the telephone number that has been assigned to the *Transmitter*.
3. Listen for a beep that confirms the *Transmitter* is ready.
4. Within 8-10 seconds, use the telephone keypad:
  - a. Press the \* key.
  - b. Enter the Group number (1-99) to page. Also see "Dynamic Group" programming for more information.
  - c. Press the \* key.
  - d. Enter a numeric message, if desired (16 digits maximum).
  - e. Press the # key to send the page.
5. A beep heard on the phone verifies that the message was sent.
6. Hang up the telephone.



**Programming For The RS232 Interface:** To communicate with the *Transmitter*, the computer software must send RS232 1200 baud message information using the following protocol.



### **RS232 DB9 Pin Identification:**

Pin 2 = Transmit Data from *Transmitter* to Host (Attached to Line Driver Transmit Side).

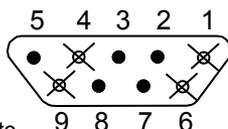
Pin 3 = Receive Data from Host to *Transmitter* (Attached to Line Driver Receive Side).

Pin 5 = Signal Ground.

Pin 7 = Request to Send Line from Host to *Transmitter* (Attached to Line Driver Receive Side).

Pin 8 = Clear to Send Line from *Transmitter* to Host (Attached to Line Driver Transmit Side).

Pins 1, 4, 6 and 9 are not used.



### **RS232 Baud Rate And Settings**

1200,N,8,1 (1200 Baud, No Parity, 8 Data Bits, 1 Stop Bit).

### **RS232 Handshaking-Request To Send (RTS) - Clear To Send (CTS)**

- The *Transmitter* uses CTS to allow data out of the Host output buffer.
- The *Transmitter* does not monitor RTS.
- The *Transmitter* requires the host to stop sending data immediately, when CTS signal switches from high to low. Incoming data is not monitored while CTS signal is low.
- High-speed serial port drivers may continue to send data after CTS signal is switched to low. This condition causes data to be lost. Serial port drivers having settings for the amount of buffered data, should be set to 0.

**7 Digit Message Format:** Contains six parts:

- |                          |   |
|--------------------------|---|
| 1. Preamble (3 bytes)    | 4. Separator (1 byte)                   |
| 2. Function Bit (1 byte) | 5. <i>Pager</i> Message (120 bytes max) |
| 3. Cap Code (7 bytes)    | 6. Terminator (1 byte)                  |

**Preamble:** Is a 3 character hex string that supplies start up synchronization "padding" between messages IN, an output buffer, and information to the *Transmitter*, that a message is coming. The Preamble is [Chr\$(255)].

**Function Bit:** The Function Bit is the single hex character following the preamble. This character tells the *Transmitter* which bit to turn ON in the POCSAG message sent. Characters are:

- (Hex 01) Non Priority Alert for *Numeric Pagers*.
- (Hex 02) Priority Alert for *Numeric Pagers*.
- (Hex 03) Non Priority Alert for *Alphanumeric Pagers*.
- (Hex 04) Priority Alert for *Alphanumeric Pagers*.

**Cap Code:** Cap Code is a seven digit data string which contains the address information of the *Pager* to be used.

**Cap Code Prefix:** Is the first 3 digits of the Cap Code. **ONLY Cap Code Prefixes of 000 and 008-199 are allowed.** If the first 3 digits of the *Pagers* cap code are [000], the *Transmitter* will convert the last 4 digits (*Pager* number) of Cap Code by multiplying by 8.

**Example:** Cap code information sent to the *Transmitter* = [0000111].

The *Transmitter* sends to the *Pager* address [0000888].

If the first 3 digits of the *Pagers* cap code are **not** [000], the *Transmitter* will send the Cap Code information as sent.

**Example:** Cap code information sent to the *Transmitter* = [1230111].

The *Transmitter* sends to the *Pager* address [1230111].

**Separator:** A separator is used between the Cap Code and the message sent. It supplies information as shown in the table.

**Messages:**

- **Alphanumeric Pagers** can be sent a maximum of 120 alpha characters (using separator Chr\$(02) orChr\$(0A)).

RF Baud Rate	Inverted Or NonInverted	Alphanumeric Or Numeric Only	Separator In VB	Separator In Hex
512 Inverted		Alpha	Chr\$(02)	02
512 Inverted		Numeric Only	Chr\$(11)	0B
512 Non	Inverted	Alpha	Chr\$(10)	0A
512	Non Inverted	Numeric Only	Chr\$(03)	03

- **Numeric Pagers** can be sent a maximum of 16 numeric characters (using separator Chr\$(0B) or Chr\$(03)).
- **Glowster and CommPass** use message characters as controls.

**Example:** To send default alert three to a *Glowster* or *CommPass*, send the hex string to the *Transmitter*: FF FF FF 01 3P 3P 3P 3P 3P 3P 03 0D] where PPPPPP is the 7 digit *Pager* number. See Cap Code for more information.

**Example:** To send an alert, other than the default, send the hex string to the *Transmitter* [FF FF FF 01 3P 3P 3P 3P 3P 3P 03 3A 3A 0D] where PPPPPP is the 7 digit *Pager* number and AA is the alert.

Alerts	AA	3A,3A	Alert type
	31	33, 31	Alert 1 – one alert of 15 seconds total.
	32	33, 32	Alert 2 – two alerts for 30 seconds total.
	33	33, 33	Alert 3 – three alerts for 45 seconds total.
	34	33, 34	Alert 4 – four alerts for 60 seconds total.
	35	33, 35	Alert 5 – sixty alerts for 15 minutes total.
	36	33, 36	Alert 6 - Demo alert 1 for 5 seconds total.
	37	33, 37	Alert 7 - Demo Alert 2 for 7 seconds total.
	38	33, 38	Alert 8 - Range Test Alert.
	39	33, 39	Alert 9
	30	33, 30	Alert 0 - Group Alert.

The first '33' in the message is used as a filler and can be any ASCII numeric digit.

**Terminator:** The terminator marks the end of message. The terminator character is the Chr\$(13) or Hex 0D.

**Example Of Visual Basic Code:** Below is an sample section from a Visual Basic program. This example produces a non-inverted, non-priority page sent to a 512 baud *Alphanumeric Pager*.

```
MSComm1.PortOpen = True                                     (Opens serial port for communication)
Preamble = Chr$(255) & Chr$(255) & Chr$(255)
FBit = Chr$(03)                                           (Set Function bit #3 (non-priority for Alpha))
Cap Code = "1236789"                                     (where '123' is the cap code prefix and '6789' is the Pager number)
Separator = Chr$(10)                                     (This is an Non Inverted, 512 RF baud, Alpha Page)
PagerMessage = "This is a test Page"
Terminator = Chr$(13)
OutPutString = Preamble & Fbit & CapCode & Separator & PagerMessage & Terminator
MSComm1.Output = OutPutString
```

**Example of Hex Data Stream Into Transmitter:**

[FF FF FF 03 31 32 33 36 37 38 39 0A 54 48 49 53 20 41 20 54 45 53 54 20 50 41 47 45 OD]

**Example Data Stream reads as:**

| P | F | Cap Code:1236789 | S| Message: THIS IS A TEST PAGE | T |

**P** =Preamble

**F** = Function Bit

**Cap Code** = Seven Digits (the 3-digit cap code prefix should match the cap code prefix stored in the *Transmitter*; the remaining 4 digits represent the *Pager* number)

**S** = Separator

**Message** = A maximum of 120 alphanumeric or 16 numeric characters (Function Bit determines alphanumeric or numeric)

**T** = Terminator

## Service

**Assistance:** For assistance, please contact JTECH Customer Care at 800-321-6221, fax at 561-995-2260 or email at [wecare@jtech.com](mailto:wecare@jtech.com). JTECH provides complete diagnostic technical support 24 hours a day, 7 days a week.

**Warranty:** Equipment under warranty will be repaired without charge.



**Extended warranties** are available. If the equipment is out of warranty there will be a nominal service fee charged when the equipment has been repaired and shipped.

**Billing for Repairs:** Terms are C.O.D. (company check), company billing or credit card. If "advanced replacement" is required, replacement equipment will arrive with a packing list and a Return Material Authorization Sheet (RMA). To return the defective equipment and ensure proper credit, include the Return Material Authorization (RMA) sheet in the shipment back to JTECH. Mark the outside of the box with the Return Material Authorization (RMA) number. If advance replacement of equipment service is used and the defective equipment is not received back at JTECH within 10 days, JTECH will bill the amount of the list price of the equipment to the Customer.

**Shipping Costs:** Costs to ship equipment from JTECH to the Customer paid by JTECH. If Expedited shipping is needed, the Customer pays the additional costs. Costs for shipping equipment from the Customer to JTECH are the responsibility of the Customer. JTECH recommends using a shipping service that is traceable in case shipping delays occur.

**Transmitter Settings And Functions**

- Settings and functions are programmable by entering information into the *Transmitter*.
- From the *Transmitter* keypad, press the \* key to scroll down through the options.
- Press # to select a displayed function.
- Press 0 to move up through functions.
- If information, other than what is required is entered, the display will show 'Invalid' and then return to 'Enter Pager #. display'

**To exit the settings and functions menu, enter \*\* on the keypad.**

**Password**

To protect system settings, most menu selections are password protected. The factory default password is "1234." Password can be changed if desired.

**Display Screen**

Enter Pager #

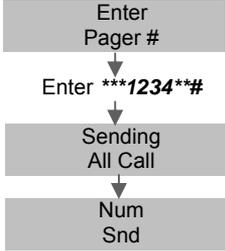
"Enter Pager #" is the 'Home Position' of the *Transmitter* display. See **Password** and **Change Password?** for more information.

**Detailed Menu information:** Instructions on how to read the menus is as follows:

- Information **shaded** is what will appear on the *Transmitter* display.
- Follow arrows ↓ to the next step
- ***BOLD Italics*** is information that needs to be entered on the Keypad.

<p>Enter Pager #</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Enter Pager #</div> <p style="text-align: center;">↓</p> <p>Enter <b>NNNN #</b></p> <p style="text-align: center;">↓</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Num    NNNN Snd    ZZZZ</div> <hr style="width: 50%; margin: 5px auto;"/> <p>Enter Pager #</p> <p style="text-align: center;">↓</p> <p>Enter <b>NNN*MMMMMM#</b></p> <p style="text-align: center;">↓</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Num    NNNN Snd    ZZZZ</div>	<p><b>"Home" position of the transmitter.</b></p> <p><b>Vibe/Tone/Flash Pagers</b> Enter the Pager number and #.</p> <p><b>Numeric Pagers</b> Enter Pager number, *, optional 16 digit numeric message and #. If ZZZZ is displayed, shown as 123 in the example.</p> <p style="text-align: center;">Ex.    Num 2           Snd 123</p> <p>Pager number 2 has been entered in the keyboard, however Pager 123 is being paged. Pager 2 has been replaced with Pager 123. See Replace Pager? For more information.</p> <p><b>To cancel a page before it was sent Enter **.</b>  <b>NNNN =Pager Number</b>  <b>ZZZZ = Replaced Pager</b>  <b>MMMMMMM = Message</b></p>
<p>Enter Grp #</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Enter Pager #</div> <p style="text-align: center;">↓</p> <p>Enter *</p> <p style="text-align: center;">↓</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Enter Grp #</div> <p style="text-align: center;">↓</p> <p>Enter <b>GG</b></p> <p style="text-align: center;">↓</p> <div style="background-color: #cccccc; padding: 5px; text-align: center;">Grp # GG Snd</div>	<p><b>Pages a Group of Pagers (if programmed).</b></p> <p>See <i>Group</i> for more information.  <b>GG = Group Number</b></p>

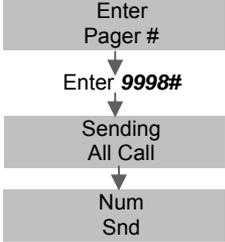
<p><b>Password</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter **</p> <p>↓</p> <p>Password PPPP</p>	<p><b>Enter the Password to access menu options.</b></p> <p>See <i>Password</i> for more information.</p> <p>Password (factory default) is 1234.</p> <p><b>PPPP = Password</b></p>
<p><b>Turn Off Pagers?</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter **1234</p> <p>↓</p> <p>Turn off Pagers?</p> <p>↓</p> <p>Enter #</p> <p>↓</p> <p>#SendNow n=HoursB</p> <p>↓</p> <p>Enter B</p> <p>↓</p> <p>#SendNow n=HoursB</p>	<p><b>Turns OFF all Pagers not charging in charger racks.</b></p> <p>Works with: <i>InstallCall Vibe/Tone Pagers.</i></p> <p>Transmitter sends a "Over the Air" signal which turns the Pagers OFF.</p> <p style="text-align: center;"><b>#SendNow n=HoursA</b></p> <p>Entering 0-9 while the display shows will change the delay of the Transmitter. The delay is measured from the last page sent from the Transmitter.</p> <p>Factory default is set a 0 hours and the Transmitter will send the Pager OFF command immediate.</p> <p>Entering 1-9 at this screen will delay the Pager turn OFF signal from 1-9 hours.</p> <p>Turn Pagers back on individually using the Pagers ON button.</p> <p><b>B=hours of inactivity</b></p>
<p><b>Search Mode</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter **1234*#</p> <p>↓</p> <p>Search.. .....ing</p> <hr/> <p>Enter Pager #</p> <p>↓</p> <p>Enter 9999#</p> <p>↓</p> <p>Search.. .....ing</p>	<p><b>Sends a repeating page to Pagers.</b></p> <p>Works with: <i>Glowster Pagers. CommPass Pagers. PatronPass Pagers. ParentPass Pagers. PeoplePass Pagers.</i></p> <p>Transmitter will send a page to all Pagers within range.</p> <p>Pagers charging in the Charging Rack will not respond.</p> <p>Allows user to find misplaced Pagers.</p> <p><b>Press * to cancel Search Mode.</b></p>

**Send All Call**

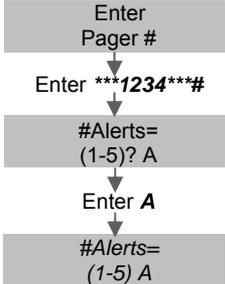
**Sends a page to all Pager at the same time.**

Works with:

*InstaCall Vibe/Tone Pagers.*  
*Glowster Pagers.*  
*CommPass Pagers.*  
*PatronPass Pagers.*  
*ParentPass Pagers.*  
*PeoplePass Pagers.*

**Send All Call**

Command can also be found in the menu functions.

**Default # of Vibes?**

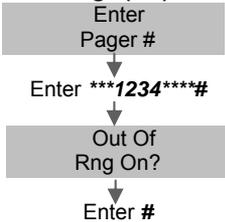
**Adjusts the number of alerts the Pager produces.**

Works with:

*Glowster Pagers.*  
*CommPass Pagers.*  
*PatronPass Pagers.*  
*ParentPass Pagers.*  
*PeoplePass Pagers.*

Allows user to change set the number of alerts from 1 to 5 (factory default is 3).

**See Multi Vibe Page 16 for additional information.**  
**A = Programmed # of Vibes 1-5**

**Out Of Range (ON)**

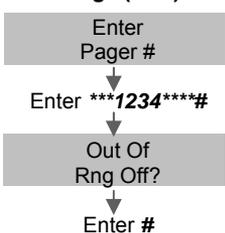
**Turns ON/OFF the Out of range function of the transmitter.**

Works with:

*Glowster Pagers.*      *PatronPass Pagers.*  
*CommPass Pagers.*      *ParentPass Pagers.*

When Out Of Range is ON, the Transmitter sends a signal every 10 seconds.

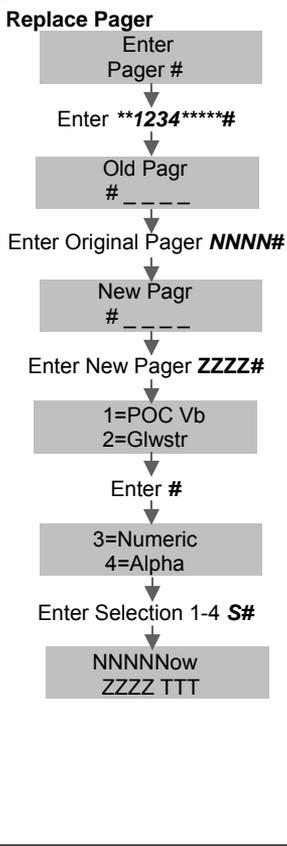
If Out Of Range is ON, any Pager moved outside the Transmitter paging range will respond with a Out Of Range Tone or Voice message if available).

**Out Of Range (OFF)**

When the Pager is brought back within Transmitter range the Out Of Range Tone or Voice message (if available) will stop.

See *Range Testing* to identify maximum Transmitter range. Command can also be found in the menu functions.

**Also use 9996# to turn Out Of Range ON.**  
**Also use 9997# to turn Out Of Range OFF.**



**Changes Pager numbers.**  
 The new Pager is paged when the original Pager number is entered. Example: If Pager 1 Numeric was changed to Pager 2 POC Vibe, display will show:

```

    1 Now
    2 Poc
    
```

To repeat the replace Pager operation, press # again.

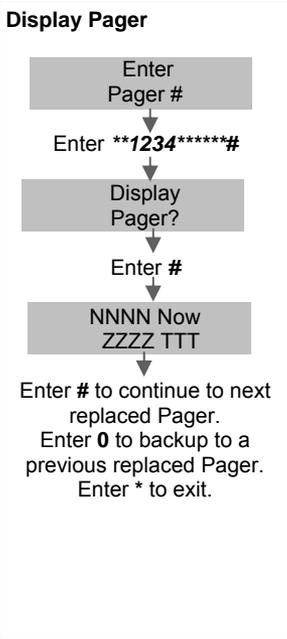
**Remove changed Pager numbers.**  
 To remove an entry and return the Pager to its original Pager ID, at the display:

```

    graph TD
      A[Old Pgr  
# _ _ _ _] --> B[Enter original Pager number NNNN #]
      B --> C[New Pgr  
# _ _ _ _]
      C --> D[Enter 0#]
      D --> E[1  
Removed]
    
```

**Exit the menu by pressing the \* key at any time.**  
**S= Selection:** 1=Pocsag Vibe/Tone Pager  
 2=Glowster/CommPass  
 3=Numeric Pager  
 4=Alphanumeric Pager

**NNNN=original Pager ZZZZ=new Pager TTT= Pager Type**



**Displays changes to Pager numbers done with the Replace Pager command.**

Example: If Pager 1 Numeric was changed to Pager 2 POC Vibe, display will show:

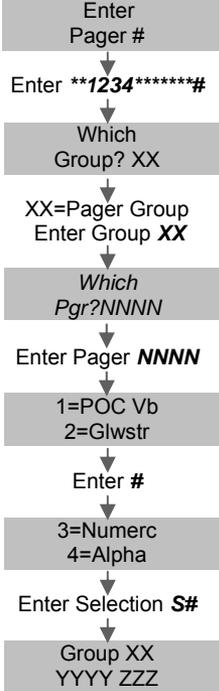
```

    1 Now
    2 Poc
    
```

To repeat the display Pager operation, press # again.

**NNNN=original Pager ZZZZ=new Pager TTT= Pager Type**

**Add Pager to Grp?**



**Adds a Pager to a Dynamic Group.**

A Dynamic Group is 2 or more Pagers which are linked together by the transmitter user. This link is done by the Transmitter, with the information being entered through the keypad. Once linked, a single (Group) page can be used to page 2 or more Pagers. When a Group page is sent, the Transmitter will page each Pager sequentially.

See Group Page for more information.

The Transmitter has the ability to hold 90 different Dynamic Groups and a total of 500 Pager numbers.

Dynamic numbers are 10-99.

Group numbers 1-9 are reserved for factory use and cannot be programmed at the Transmitter keypad. Groups may have mixed Pager types.

Example: If Pager 2134 Numeric was input into group 88, display will show:

Group 88  
2134 Num

**To repeat the add Pager to group operation, press # again.**

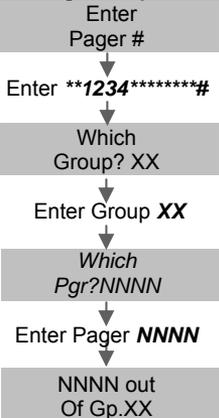
**To Exit, press \* button.**

Until a Group Page is complete, the Transmitter cannot be used for other pages. Time to complete a Group page increases with the number of Pagers within that group.

**S = Selection 1-4:** 1=Pocsag Vibe/Tone Page  
2= Glowster/CommPass  
3=Numeric Pager  
4=Alphanumeric Page

**XX=Group Number NNNN=Pager ZZZ= Pager Type**

**Remov Pg fm Grp?**



**Remove a Pager from a Dynamic group.**

Removes a Pager from an existing Dynamic Group.

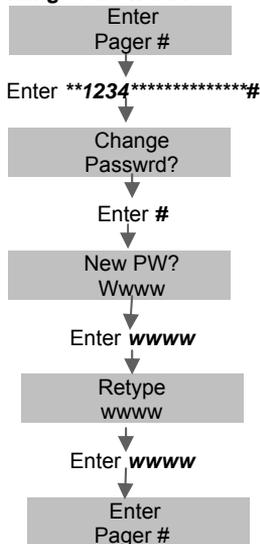
See Add a Pager to a Group and Groups for more information.

**To repeat the remove Pager operation, press # again.**

**To Exit, press \* button.**

**NNNN=Pager Number  
XX =Pager Group**

<p><b>Display Group?</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter <b>**1234*****#</b></p> <p>↓</p> <p>Which Group? GG</p> <p>↓</p> <p>Enter Group <b>GG</b></p> <p>↓</p> <p>Group GG NNNN TTT</p> <p>↓</p> <p>Enter # for Next Pager Enter 0 for previous Pager</p> <p>↓</p> <p>End of Group</p>	<p><b>Display Pagers in a Dynamic Group.</b></p> <p>Displays Pagers of a specific Dynamic Group.</p> <p>To view next Pager in the Dynamic Group, press # again.</p> <p>After last Pager is displayed, pressing # will show:</p> <p style="text-align: center;">End of Group</p> <p>Press 0 to view previous Pager in the Dynamic Group.</p> <p>To Exit, press * button.</p> <p><b>GG=Pager Group</b> <b>NNNN=Pager Number</b> <b>TTT=Type Of Pager</b></p>	<b>Display Groups</b>
<p><b>Active Groups?</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter <b>**1234*****#</b></p> <p>↓</p> <p>Active Group? GG</p> <p>↓</p> <p>Enter # view next Enter 0 view previous</p> <p>↓</p> <p>End of Group</p>	<p><b>Display Dynamic groups in use.</b></p> <p>Used to display all Dynamic Groups that have been created.</p> <p>To view next Group in the active Dynamic Groups, press # again.</p> <p>After last Group is displayed, pressing # will show:</p> <p style="text-align: center;">End of Group</p> <p>Press 0 to view previous Dynamic Group. To Exit, press * button.</p>	<b>Active Groups</b>
<p><b>Power Level?</b></p> <p>Enter Pager #</p> <p>↓</p> <p>Enter <b>**1234*****#</b></p> <p>↓</p> <p>RF POWER 1mn&gt;5MxY</p> <p>↓</p> <p>Enter <b>Y</b></p> <p>↓</p> <p>RF POWER 1mn&gt;5MxY</p> <p>↓</p> <p>JTECHuhf Ver V.VV</p>	<p><b>Changes Transmitter Power Output.</b></p> <p>Changes the output power level of the Transmitter.</p> <p>Settings are 1-5. Factory default setting is 5 (maximum).</p> <p>Used to increase/reduce signal output, limiting Transmitter range.</p> <p>See Out Of Range for more information.</p> <p>1 = Minimum = Approx 0.1 watt 2 = Approx 0.4 watt 3 = Approx 0.8watt 4 = Approx 1.4watt 5 = Maximum = 2.0watt</p> <p>Range may vary depending on installation.</p> <p>See installation for more information.</p> <p><b>V.VV = JTECH Software Version displays at reset.</b> <b>Y = Output Power Level</b></p>	<b>Power Level</b>

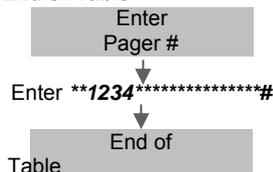
**Change Password?****Changes the Transmitter menu password.**

See *Password* for more information.

Password is 4 digit number.

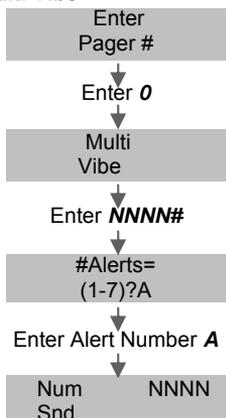
Password (factory default) is 1234.

**www= New Password**

**End of Table****Last screen display in Menu options.**

Press 0 button to go back through menu options.

Otherwise, press \* to exit menu options and return to the "Enter Pager #" display.

**Multi Vibe****Transmitter sends different alternate alert commands to Pagers.**

Works with:

*Glowster Pagers.*

*CommPass Pagers.*

7 different alert types can be sent from the Transmitter.  
Factory Default = 3.

Alert 1 = 1.5 second Vibe + Voice (if available)+13.5 sec Flash –Total =15 sec.

Alert 2 =Alert 1 repeated 2 times. Total =30sec.

Alert 3 = Alert 1 repeated 3 times. Total =45 sec (default).

Alert 4 = Alert 1 repeated 4 times. Total =60 seconds.

Alert 5 = Alert 1 repeated 60 times. Total = 15 minutes.

Alert 6 = 1.5 sec Vibe + 3.5 sec Flash. Total 5 sec.

Alert 7 = 5 beeps.

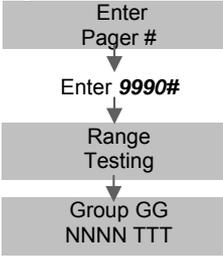
Alert 8 = Range Test Alert

Alert 9 = 30 second Flash only.

**To Exit, press \* button.**

To change factory default of 3 see **Default # Vibes** on page 12 for more information.

**Range Test**



**Sends a page to all Pagers in Group 99 sequentially.**

Works with:  
*InstaCall Vibe/Tone Pagers.*  
*Glowster Pagers.*  
*CommPass Pagers.*

Transmitter will send a page to Pager #1 (factory default) and any Pagers in Group 99 every 4 seconds. Press any button to quit.

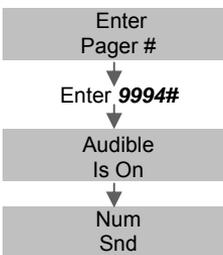
See *Group* instructions for more information.

See *Range Test The Transmitter* for more information.

Command can also be found in the menu functions.

**GG=Group NNNN=Pager TTT= Type of Pager**

**Audible On?**



**Turns ON/OFF the tone and voice alerts if available.**

Works with:  
*Glowster Pagers.*  
*CommPass Pagers.*  
*PatronPass Pagers.*  
*ParentPass Pagers.*  
*PeoplePass Pagers.*

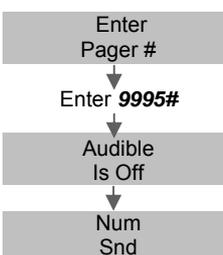
Pagers charging in the Charging Racks will not be affected by this command.

To change, Pagers must be removed from the Charging Rack.

**Use 9994# to turn audible ON.**

**Use 9995# to turn audible OFF.**

**Audible Off?**



Audible refers to the primary voice and/or tone alerts.

Secondary (Voice/Tone) alerts for *Out Of Range* and *Search Mode* are not affected.

Command can also be found in the menu functions.

**General Terms and Conditions** This offer is subject to the terms and conditions listed below which are binding upon the seller and the buyer under this offer and are hereby incorporated by reference in any subsequent agreement for purchase duly executed between JTECH Communications Inc. (Seller) and its buyer of goods proposed for sale herein:

- 1. Price.** All prices are F.O.B. point of origin, unless otherwise agreed to in writing by the buyer and seller. Prices quoted are those in effect at the time of quotation and are valid for 30 days from the date of quotation regardless of existence of any written confirmation. Until the proposal price and subsequent purchase price are paid in full, the buyer grants seller a security interest in all of the goods described in this proposal all of the goods described in any resulting contract and buyer agrees to sign on seller's request any required documentation to complete seller's said security interest.
- 2. Payment Terms.** Normal payment terms are C.O.D. unless otherwise set forth in this proposal. Any outstanding balances not paid by the date on which they are due to JTECH Communications Inc. Inc. shall be subject to interest of 1 1/2% per month on the unpaid balance (or the maximum allowable by law whichever is the lesser) as well as rebilling charges together with reasonable attorney's fees and paralegal fees including all such fees in any appeal together with all costs associated with efforts by JTECH Communications Inc. to enforce the terms of this proposal as well as all agreements between the parties. Any discounts offered will be calculated from the date of invoice to the date that payment is received by JTECH Communications Inc. or JTECH Communications Inc.'s agents. Any discount is void if not taken at time of payment of the invoice containing said discount within thirty (30) days of the date on which the goods for which the discount is allowed, have been received by Buyer, its agents or employees.
- 3. Products.** Products are defined as those items listed on this proposal and a subsequent resultant purchase order to JTECH Communications Inc. containing items listed on this proposal.
- 4. Acceptance.** Upon receipt the buyer shall immediately inspect and/or test the products. Unless stated otherwise in writing on the final agreement between the parties, products shall be deemed accepted unless the buyer notifies JTECH Communications Inc. within 5 working days after receipt of shipment of any defect or discrepancy.
- 5. Transportation.** Unless the buyer specifies the method of transportation, JTECH Communications Inc. will use its best judgment in determining the method of transportation. All costs of standard transportation, premium transportation if required through no fault of JTECH, and other costs such as excise taxes, duty, freight forwarding or the like shall be billed to the buyer.
- 6. Title and Risk of Loss.** Title of goods sold, shall pass to buyer at the F.O.B. point.
- 7. Limited Warranty for material and workmanship.** JTECH (Seller) warrants to the buyer that products purchased from JTECH shall be free from defects in material and workmanship under normal use and service. JTECH's obligation under this warranty shall be limited to the repair or exchange of any part or parts which may thus prove defective under normal use and service within one (1) year from date of purchase by the original purchaser, and which our examination shall disclose to our satisfaction to be thus defective. THIS PROPOSAL AND SUBSEQUENT SALE ARE MADE ON THE EXPRESS UNDERSTANDING THAT THERE IS NO IMPLIED WARRANTY THAT THE GOODS SHALL BE MERCHANTABILITY NOR AN IMPLIED WARRANTY THAT THE GOODS SHALL BE FIT FOR ANY PARTICULAR PURPOSE. THE BUYER ACKNOWLEDGES THAT BUYER IS NOT RELYING ON THE SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS SUITABLE FOR ANY PARTICULAR PURPOSE AND THAT THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE PREVIOUSLY SET FORTH HEREIN. PURCHASER IS DIRECTED NOT TO RELY ON JTECH'S PRODUCTS TO FUNCTION AS AN INTEGRAL PART OF ITS LIFE CARE/LIFE SUPPORT PROCEDURES OR SYSTEMS. JTECH'S PRODUCTS ARE NOT DESIGNED FOR SUCH USE; PARTICULARLY WHEN AN ALLEGATION MAY BE MADE THAT PRODUCT MALFUNCTION CONTRIBUTED TO THE FAILURE TO ADMINISTER A PROPER TREATMENT, PROCEDURE, ACTION OR MEDICATION. BUYER AGREES TO FULLY PROTECT, DEFEND AND HOLD SELLER HARMLESS FROM CLAIMS OR DAMAGES RESULTING FROM THE USE OF JTECH'S PRODUCTS IN LIFE CARE/LIFE SUPPORT PROCEDURES. Any claim by the buyer for the repair or exchange of goods proposed and of goods actually sold to buyer shall be deemed waived by the buyer unless submitted in writing to JTECH within the earlier of (a) 30 (thirty) days from the date the buyer discovered or by reasonable inspection should have discovered any claimed breach of the foregoing warranty.
- 8. Damages Based Upon Negligence or Strict Liability.** JTECH's obligation based upon any claim of negligence or of strict liability as a result of its delivery of products ordered by Buyer, shall be limited to, at JTECH's option, repairing or replacing the products that are found by JTECH to be defective, or refunding the purchase price of such products. **In no event shall JTECH's liability exceed the purchase price of the products** that are subject matter of any such claim. JTECH shall not be obligated to make any such refund or replacement until at least thirty(30) days after JTECH has received from Buyer the subject alleged defective product, which will be shipped to JTECH at the buyer's expense.
- 9. Disclaimer of Consequential Damages.** In no event shall JTECH be liable for incidental or consequential damages arising out of or in connection with the purchase by Buyer of goods from JTECH including, without limitation, such damages that may be caused by a breach of any obligation or warranty imposed on JTECH under such purchase. Consequential damages shall include without limitation, loss of use, income or profit, or loss sustained as the result of injury to any person, or loss or damage to any property, or loss or damages sustained as the result of work stoppage. Buyer shall indemnify JTECH against all liability, cost or expense that may be sustained by JTECH due to loss, damage or injury. **IN NO EVENT, SHALL JTECH'S LIABILITY EXCEED THE PURCHASE PRICE OF GOODS.**
- 10. Taxes.** Unless specifically provided herein, the price for goods purchased as a result of this proposal does not include sales, use, excise or similar taxes, whether Federal, State or local. Buyer is responsible for all applicable taxes for any goods after title passes to the Buyer at the F.O.B. point. If Buyer is exempt from paying sales taxes, a certificate evidencing such shall be provided to JTECH upon request.
- 11. Export.** Buyer agrees not to directly or indirectly export any Goods purchased from JTECH (whether or not modified by subsequent services) including, but not limited to parts, equipment, software or technical data/documentation without first obtaining the required U.S. Government export license(s). If Buyer intends to export Goods outside the U.S., Buyer shall determine whether an export license is required; and, if so, obtain that license from the U.S. Government. Buyer shall protect, defend and indemnify JTECH from any loss or liability due to Buyer's failure to comply with export regulations. Buyer further warrants that the Goods sold to Buyer from JTECH will not be resold, transferred, exported or reused in any way by Buyer in violation of any laws, regulations or export control imposed by the U. S. Government.

**12. Delays.** Unless specified in writing by JTECH to the contrary, goods in stock shall be shipped immediately upon the signing of a binding purchase agreement. Goods not in stock will be shipped as soon as possible. JTECH will not be liable for any nonperformance of the Agreement resulting from this proposal caused by strikes, fires, disasters, riots, acts of God or other causes or conditions beyond JTECH's reasonable control. In the event of such delay or nonperformance, JTECH may, at its sole option, and without liability, cancel any portion of the Agreement resulting from this proposal and/or extend any date upon which any performance is due.

**13. Termination.** If Buyer (a) fails to pay any amount owed when due, or (b) assigns or transfers the Agreement subsequently resulting from this proposal without JTECH's prior written consent, or (c) makes an assignment for benefit of creditors, or (d) files or has filed against it, petition for relief under federal or state bankruptcy laws, or (e) breaches any other term or condition of this proposal or resultant contract, JTECH may terminate any portion of the agreement resulting from this proposal in addition to JTECH's other available remedies. If JTECH fails to perform any obligation when due, and if such failure is not remedied within thirty (30) days after receipt of written notice from Buyer, Buyer may terminate any portion of such Agreement. In all other cases, the Agreement resulting from this proposal may be terminated by either party by giving sixty (60) days written notice. Termination of the Agreement, for any reason, shall in no way interfere with the obligation of Buyer to pay all monies payable as of the effective date of termination or which become payable for Goods ordered and delivered after such termination. If such Agreement is terminated by Buyer for any reason other than default by JTECH, Buyer shall be liable immediately thereupon, to pay to JTECH the full contract price for all goods completed by JTECH pursuant to the Agreement and for all work in process at the time of termination.

**14. Returns and Cancellations.** Buyer may not cancel any order or return any Goods that have been special or custom ordered, custom manufactured or configured, unless specifically agreed to in writing to seller in this proposal and in the subsequent agreement. Returns are subject to a restocking fee that will be due to seller when the goods are received by seller.

**15. Patents and Copyrights.** In no event shall JTECH be liable for damages arising from infringement of patents or copyrights. In the event that Buyer should be enjoined in any such suit alleging infringement of patent(s) or copyright(s) or proceeding from using any of the Goods purchased pursuant to this proposal and subsequent Agreement, JTECH, at its option, shall either (a) secure termination of the injunction and procure for Buyer the right to use such goods without obligation or liability or (b) replace or modify said Goods with non infringing materials at JTECH's expense and refund the purchase price of the infringing goods to Buyer; provided, however, that in no event shall JTECH be liable for or have any obligations under this paragraph if the alleged infringement is by reason of the specifications provided by Buyer to JTECH under this agreement. The foregoing shall be Buyer's exclusive remedy against JTECH with respect to any alleged patent or Copyright infringement. The sale of goods does not convey any license of copyright under any proprietary or patent rights of any manufacturer. JTECH shall not have any liability if the alleged infringement is based upon the use or application of the Goods in combination with other Goods and Buyer shall protect, defend, and indemnify JTECH therefrom. JTECH disclaims all other liability for infringement of intellectual property rights and further disclaims any liability for incidental or consequential damages arising in connection with such infringement.

**16. Manufacturer Liability.** In addition to JTECH's limited warranty for materials and workmanship as per section 7 herein, and unless specifically agreed to in writing by the manufacturer, JTECH and Buyer, Buyer represents to JTECH and the manufacturer that the Goods sold pursuant to this proposal and the subsequent resultant Agreement incorporating such of the terms of this proposal agreed to by JTECH and buyer do not constitute standard components intended for use by Buyer or JTECH in life support systems, surgical implantation, nuclear facilities, or for any other application in which the failure of the Goods or the product in which the Goods are to be used could create a situation where personal injury or death may occur.

**17. Credit Terms.** All orders and shipments shall at all times be subject to the approval of JTECH's credit department. JTECH reserves the right of declining to make any shipment called for by the contract between seller and buyer whenever, for any reason, there is doubt in JTECH's sole judgment, as to buyer's willingness or ability to pay for the goods ordered on Buyer's solvency and JTECH shall not, in such event, be liable for breach or nonperformance of this Agreement in whole or in part.

**18. Packaging.** Packaging will be standard commercial package and acceptable to commercial carriers. Special customer packaging will be furnished only when specified and so stated herein and the cost thereof shall have been agreed to by both the Buyer and JTECH in writing.

**19. Substituted or Repaired Goods.** If substitute additional or repaired goods are purchased by Buyer from JTECH, the terms and conditions of this proposal and resultant Agreement shall be applicable thereto, the same as if such substituted, additional or repaired Goods had been originally purchased hereunder unless specifically stated to the contrary in this proposal or subsequent resultant Agreement.

**20. General Conditions.** No agent, salesman or other party is authorized to bind JTECH to any agreement, warranty, statement, promise or understanding not expressed herein. The sale of Goods pursuant to this proposal and any subsequent resultant Agreement shall be governed by the laws of the State of Florida. Any notice that is required under the terms of a resultant Agreement shall be in writing and delivered to the address of the party set forth in the Agreement and shall be effective when actually received. The remedies reserved by the parties shall be cumulative and in addition to other remedies provided by law. JTECH shall not be required to proceed with the performance of any obligation under a resultant Agreement so long as Buyer is in default or in breach of any of Buyer's obligations or agreements herein. Any clerical errors are subject to correction. No delay or omission by JTECH in exercising any right or remedy under that agreement shall constitute a waiver of such right or remedy. The waiver, invalidity or unenforceability of any provision in a resultant Agreement shall not affect the validity of the agreement as a whole or any other provisions herein. An Agreement resulting from this proposal shall be binding upon and shall inure to the benefit of the successors and assigns of Buyer and JTECH. Buyer may not assign or transfer such Agreement in whole or in part without the prior written consent of JTECH. For the purposes of such agreement, the Buyer and JTECH agree, notwithstanding any of the items sold not constituting "goods" as defined in Article 2 of the Uniform Commercial Code as enacted and amended from time to time in the state of Florida, for the purpose of interpreting this proposal or a resultant Agreement all items shall be deemed to be such "goods." **Buyer agrees that acceptance of this proposal and receipt of shipment from JTECH pursuant to any resultant Agreement shall constitute acceptance in total of the preceding General Terms and Conditions except as otherwise agree to in writing by the parties thereto.**

## SYSTEM WARRANTY

JTECH Communications, Inc. warrants its equipment to be free from defects in materials and workmanship for a period of one year. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. Products must be returned with transportation charges prepaid. All warranty returns must also include a JTECH-issued RMA number, clearly displayed on the interior and exterior of the package(s). This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

The following are not covered under our one-year warranty: adapters, antennas, user-replaceable batteries, pager belt clips, pager promobacks, pager battery doors, or pager neck chains. Warranty also excludes liquid damage to master transmitter/controller (including base station, modules and any desktop or rack mount appliances), pagers, chargers or tablet hardware, lightning strikes or other acts of God that could affect the performance of the master transmitter/controller, pagers and peripherals.



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Part Number 320115B1  
Kit Number 325005H

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