

Microframe Corporation

Series 3000: DataPage II Transmitter



Operating Manual

B3000-7013





SERIES 3000 DATAPAGE II TRANSMITTER

INSTALLATION & SPECIFICATION GUIDE

**ITEM NO: A3000-7013
REVISION DATE: 08/05**

Microframe Corporation
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Toll Free: 1-800-635-3811
Website: www.microframecorp.com
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Limited Warranty Agreement

Your Microframe System is warranted against failure due to defects in workmanship or material for a period of one (1) year from the date of purchase. Microframe Corporation will repair or replace any defective unit. Obvious abuse or mishandling of the unit is NOT covered by this warranty.

Merchandise Return

If your Unit does not work satisfactorily, please give us a call. We may be able to correct the problem by phone. If it becomes necessary to return your Unit to the factory, please observe the following:

1. Place Unit in a sturdy box with sufficient packing material.
2. If requested, include the DC power adapter.
3. Return the system insured and prepaid since we are not responsible for shipping damages and losses on returned Units.

Warranty Service

For warranty service, please contact Microframe at 1-800-635-3811. A tech will gladly assist you.

Assistance

For any product assistance or maintenance help, contact Microframe by calling 1-800-635-3811 or emailing us at support@microframecorp.com.

Safety

Do not install substitute parts or perform any modification to the product without first contacting Microframe.

Warning

All power adapters, line cords, and electrical equipment should be kept out of the reach of children and away from water.

Life Support Policy

Microframe's products are not authorized for use as components in life support devices or systems without the express written approval of the president of Microframe Corporation. As used herein:

1. Life support devices or systems are defined as systems which support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user or anyone depending on the system.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Disclaimer

We are constantly striving to improve our products. Due to this, specifications are subject to change without notice.

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DATAPAGE II SPECIFICATIONS

On-Premise Paging

Features

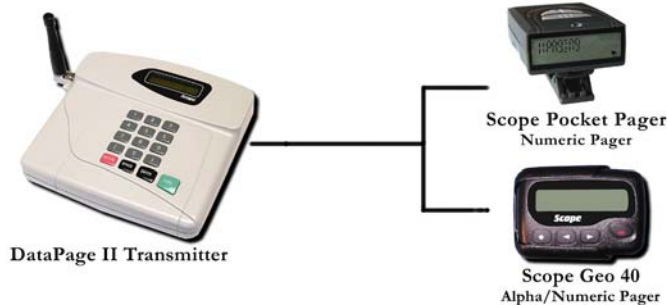
The DataPage II Transmitter can send a 12-digit numeric message code to any of 9,999 different pagers. Upon request, Microframe can program up to three pre-defined alpha messages to enhance communication between the sender and receiver. This on-premise paging system offers unlimited paging with no monthly service fee. Optional Telephone Interface allows any internal phone to be used for paging. Optional computer interface allows messages to be sent from any network computer. May be set on a flat surface or installed on a mounting wedge for an angle or wall-mount.



DataPage II Transmitter

Operation

The DataPage II is a simple plug and play system. Once the transmitter is plugged in and batteries are inserted into the pagers, the system is ready. A page is transmitted when the pager number or group number is entered using the number keys on the base. Pagers may be turned off from the base or individually.



DataPage II Specifications

Frequency Range	457.575 MHz
Distance Range	1/4 to 1/2 Mile
FCC Approval No.	JRNUSASERILINK
Mounting	Desk Mounted

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DATAPAGE II w/DTMF SPECIFICATIONS

On-Premise Paging

Features

The DataPage II w/DTMF can send a 12-digit numeric message code to any of 9,999 different pagers. When used with the GEO 40 Alpha Pager, Microframe can program pre-defined alpha messages to enhance communication between the sender and receiver. Up to 874 total characters may be used, making it possible to program as many different messages as you want within that character limit. Every space counts as a character, as does every line. For example, you could pre-define 45 messages that are 2-5 words in length or 70 two-word messages. All pre-defined messages are programmed at the time of initial order.



DataPage II w/DTMF Transmitter

Operation

A page can be transmitted from the transmitter or any phone within your PBX system to a single pager or a group of pagers. Up to a 12-digit numeric message may be sent using the Pocket Pagers. Using the GEO 40 pager, pre-defined alpha messages may be sent in addition to the ability to send a single numeric message.



DataPage II Specifications

Frequency Range	457.575 MHz
Distance Range	1/4 to 1/2 Mile
FCC Approval No.	JRNUSASERILINK
Mounting	Desk Mounted

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DATAPAGE II w/LINE PORT SPECS

On-Premise Paging

Features

The DataPage II w/Line Port can send a 12-digit numeric message code to any of 9,999 different pagers. When used with the GEO 40 Alpha Pager, Microframe can program pre-defined alpha messages to enhance communication between the sender and receiver. Up to 874 total characters may be used, making it possible to program as many different messages as you want within that character limit. Every space counts as a character, as does every line. For example, you could pre-define 45 messages that are 2-5 words in length, or 70 two-word messages. All pre-defined messages are programmed at the time of the initial order.



DataPage II w/Line Port Transmitter

Operation

A page can be sent from the transmitter or any phone within your PBX system to a single pager or a group of pagers. Up to a 12-digit numeric message may be sent using the Pocket Pagers. Using the GEO 40 pager, pre-defined alpha messages may be sent in addition to the ability to send a single numeric message.



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1 INSTALLATION PROCEDURES

1.1 CONNECTING THE ANTENNA

Connect the 90 degree antenna to the BNC connector located at the side of the transmitter. Slide the plastic cover over the connector, engaging the two lugs into the corresponding recesses in the side of the case. This will maintain the antenna in an upright position, which is important for optimizing the range of the transmitter (See Figure 1).

1.2 CONNECTING POWER ADAPTER

Connect the DC power adapter to the power socket located at the right-hand rear corner of the base station (See Figure 2).

Plug the adapter into a convenient wall socket and turn on the power. When the unit is first powered up, the system will display the following screen for a few seconds:

SCOPE MARKETING
DataPage V1.00

Followed by:

ENTER PAGER No.
>

The flashing cursor invites you to enter a pager number (this can be any number between 1 and 9,999) after which you must press SEND to transmit a page. See "Operation" for further transmitting procedures.

IMPORTANT NOTE:

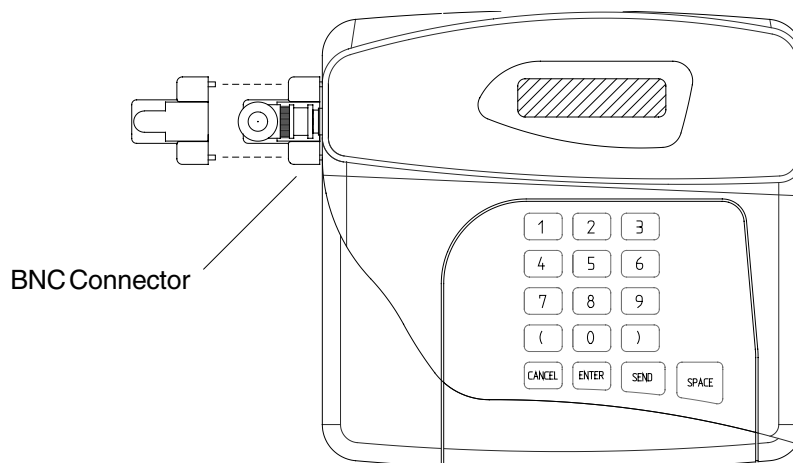
Use only the DC power adapter supplied with your system! The use of non-approved power adapters will invalidate all warranty and service. We also recommend using a surge suppressor for protection. Power surges are not covered under the warranty.

1.3 PRECAUTIONS

Avoid mounting the transmitter in the immediate vicinity of telephones, exchanges, or computer equipment. A few feet can make the world of difference in avoiding interference from the radio frequency generated by the transmitter.

The performance of your system will be affected by: foil backed wallboard, metal mesh, wire-reinforced glass, metal sheeting, large mirrors, suspended ceilings, elevator shafts, etc. These can all reflect and thereby reduce the signaling capability of the transmitter. A little

Figure 1: Connecting the Antenna and Locking Cover



forethought prior to installation, coupled with a few tests, can normally avoid most problems.

- Never install antenna near overhead power lines or adjacent to telephone or public address or data communication lines.

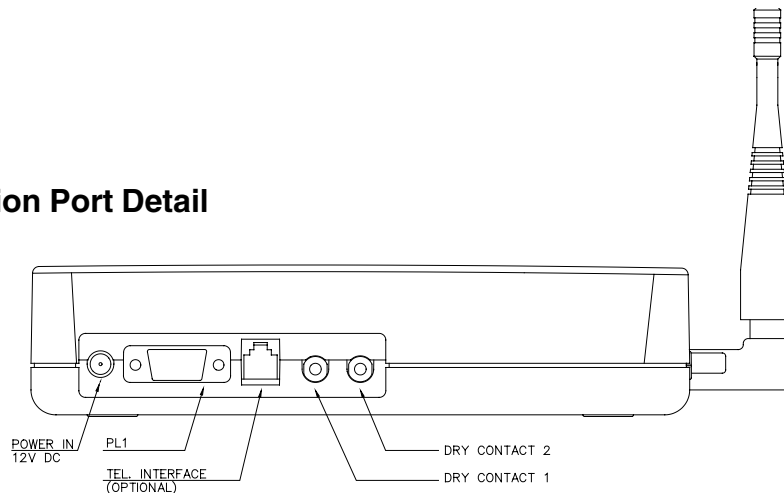
- Avoid, wherever possible, running antenna feeder cables alongside other cables, i.e.: telephone cables.

1.4 DRY CONTACTS

There are two volt-free (dry) contacts available for use with either Normally Open, Normally Closed or Change of State switches. When either is triggered, the programmed message(s) will be sent to the selected pager (or group of pagers). When used in the Normally Open mode only, the message will repeat while in the active state (can be used as a safety mode.)

Connection is via 3.5mm locking jack plugs at the rear of the unit (See Figure 2).

Figure 2: Connection Port Detail



PL1 is an optional serial port which must be specified when the unit is ordered.

2 OPERATION

2.1 SENDING A BASIC PAGE

In the most basic use of the transmitter, simply type the pager number and then press "SEND." This will cause the pager with the corresponding number to vibrate.

2.2 SENDING A GROUP PAGE

The pagers are capable of receiving both individual pages or a group page. To send a group page, simply type the group call number instead of the pager number in any of the paging steps above. By default, the group call number is "900," unless otherwise specified by the customer.

2.3 PAGER TURN-OFF FROM BASE

Enter the pager number followed by the "ENTER" key. Press "ENTER" again to bypass "Beep Type" screen. When screen reads "Enter Message," type the code "**(0091)(0)**" followed by "SEND." **NOTE: The parentheses are required, or it will not work.**

2.4 TURNING OFF ALL PAGERS

To simultaneously turn all pagers off at the base, type in the group call number "900" followed by "ENTER." Press "ENTER" again to bypass "Beep Type" screen. When screen reads "Enter Message," type the code "**(0091)(0)**" followed by "SEND."

* Please see instructions in the back of this manual for particular pager use

3 SYSTEM OVERVIEW

3.1 DESCRIPTION

The Datapage II is a desktop transmitter with two contact closure inputs that can be used to transmit numeric messages to individual pagers or even an entire group of pagers. The system can accommodate up to 9999 pagers (just under 10,000). The transmitter base identity can be configured to prevent interference with other systems.

3.2 RANGE EXPANSION

The range and performance of this equipment can be improved by the addition of more efficient antennas.* These can be installed either inside or outside the building and are connected to the transmitter with 50 OHM coaxial cable.

The center-fed half wave dipole, measuring approximately 12 inches from tip to tip, will provide excellent all round local signaling. It is a light duty antenna suitable for sheltered environments/internal installation (LUHFDP). It includes a 15 foot cable.

NOTE: High frequencies can equate to high power losses. Always use quality cable. RG58 is only acceptable on cable runs of up to 5 meters (16.4 feet.) We recommend RG213, or equivalent, on greater lengths. If in doubt consult your dealer.

**Subject to license conditions. Specifically, mounting height and Effective Radiated Power (ERP).*

3.3 IMPORTANT INFORMATION

It is the purchaser's responsibility to determine the suitability of this equipment and its derivatives for any given application.

Good working practice dictates that a suitable system installation log must be generated, together with a record of the dates when the system has been manually checked, (with the aid of signal strength meters, etc.) enabling the system performance to be compared with the original installation data.

3.4 SAFETY INFORMATION

These products are designed to operate safely when installed and used according to general safety practices. The following requirements should be observed at all times:

Do NOT subject this equipment to:

- Mechanical shock
- Excessive humidity or moisture
- Extremes of temperature
- Corrosive liquids

This equipment is designed for indoor use, unless expressly stated otherwise, and must not be used in classified Hazardous Areas, including areas containing explosive or flammable vapors, unless express authorization has been given in writing by the manufacturer. If in doubt, consult Microframe for more information.

Do not obstruct any slots or openings in the product. These are provided for ventilation to ensure reliable operation of the product and to protect it from overheating.

3.5 CARE OF TRANSMITTER

Only use a damp cloth for cleaning (not liquid or aerosol-based cleaners), and ensure that any power is removed from the unit prior to beginning the cleaning operation.

Removal of covers from the equipment must only be undertaken by authorized service personnel, who must ensure that power is isolated prior to removal.

3.6 LIABILITY

Scope and Microframe do not accept liability for any damage or injury, caused as the result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task.

3.7 WARRANTY INVALIDATION

Alteration or modification to any part of this equipment, without the prior written consent of the manufacturer, will invalidate all manufacturer approvals and warranties. No adjustments can be undertaken except by qualified and licensed persons as defined by the FCC Rules and Regulations. Operation of altered equipment can result in fines, imprisonment, and/or confiscation of such equipment.

3.8 SERVICE INFORMATION

If you experience a problem with your equipment, please contact Microframe at 1-800-635-3811.

4 POCKET PAGER USER GUIDE

4.1 TURNING ON THE PAGER

Hold down the “LARGE GRAY BUTTON” until the pager comes on.

4.2 SENDING A PAGE

When the transmitter is turned on, the prompt “ENTER THE PAGER NO.” appears on the screen. To send a page, enter the pager number on the transmitter’s number pad followed by the “SEND” key.

4.3 SENDING AN ALPHA MESSAGE

To send a pre-defined message to a pager, enter the pager number followed by the “ENTER” key. You will be prompted for a “BEEP TYPE (1-4).” Select 1-3 here and press the “SEND” key. If no number is chosen, the pager will default to Beep Type 4 (“PAGING”).

(place pre-defined messages label here)

4.4 SENDING A NUMERIC MESSAGE

To send a numeric message to a pager, simply enter the pager number followed by the “ENTER” key. The transmitter screen will display “BEEP TYPE.” Simply press “ENTER” to bypass this. The transmitter screen will then display “ENTER MESSAGE.” Using the number keys, enter up to a 12-digit numeric message followed by the “SEND” key. *Note: Since a numeric message is entered after the “BEEP TYPE,” (pre-defined message) prompt, the alpha message selected will be ignored.*

4.5 RECEIVING A PAGE

The Pocket Pager will start to vibrate when it is paged. No action is necessary on the receiving end at this point. The pager will stop vibrating after approximately 8 seconds. If the user would like to stop the vibration before the 8 seconds, simply press the “LARGE GRAY BUTTON.” If a numeric message is sent to the pager, the message will be visible on the pager screen until the pager stops vibrating. To view the message after the pager has stopped vibrating, press the “LARGE GRAY BUTTON” once.

4.6 SENDING A GROUP CALL PAGE

All pagers respond to call number “900” (unless another group call number has been chosen). To page all pagers at once, simply enter “900” and “SEND.”

4.7 MANUAL PAGER TURN-OFF

Press the “DOWN ARROW BUTTON” four times. The words “PGR OFF” will appear on the LCD screen. Press the “LARGE GRAY BUTTON” once to confirm. *NOTE: If you have chosen to disable the pagers’ on/off button, the pagers can only be turned off from the transmitter.*

4.8 PAGER TURN-OFF FROM BASE

Enter the pager number followed by the “ENTER” key. Press “ENTER” again to bypass “BEEP TYPE” screen. When screen reads “ENTER MESSAGE,” enter the message code “(0091)(0)” followed by “SEND.”

Note: Since all pagers respond to call number “900,” paging “900” with the message code “(0091)(0)” will turn all pagers off.

4.9 POWER CHECKING

When the battery level is low, a low-battery symbol will appear at the bottom of the pager screen.

4.10 LIGHTING FUNCTION

Pressing the “UP ARROW BUTTON” for two seconds can turn on the backlight on the LCD screen. The light will shut off automatically after approximately 10 seconds, or the user may turn the light off manually by pressing the “UP ARROW BUTTON” once.

4.11 CAUTION

- a) The pager is made up of LCD and precision elements. Avoid water and high temperature.
- b) Remove the battery if the pager will not be in use for a long period of time.
- c) If the pager is not working properly, do not dismantle or repair it yourself.

5 DTMF INTERFACE (option)

5.1 QUICK START

Plug the Scope DC power adapter into the wall and connect the other end to the power input on the DataPage II Transmitter. Using the wire supplied, connect the DataPage II telephone option to one of the extensions on your PBX.

From a phone within your PBX system, dial the extension that the DataPage II is attached to. You will hear a three-tone "sign on" from the DataPage II unit. Dial the pager number (i.e. 12 for pager twelve), then press *. Dial the numeric message to be sent to the pager and press * again. When finished, hang up. To page a pager without sending a message, simply dial the pager number and then press * three times.

5.2 OVERVIEW

IMPORTANT! This unit must not under any circumstances be connected directly to the public telephone network. It is only intended for indirect connection to an in-house telephone exchange. Any attempt to operate the unit other than as intended will invalidate all equipment warranties and may result in damage to the equipment, the telephone network or both.

The Scope Digital Paging Interface can be used to transmit numeric messages from any telephone connected to your exchange directly to the pager of the individual being paged. There are two types of interface available that cover all types of hybrid and PBX systems. This manual is written for the DTMF Extension MF version.

1) LP. This interface connects to an external line port. It automatically generates the 50-volts required for the line port. This unit will work with any telephone system that has an unused external line.

2) MF. This interface is only intended for use with systems dedicated to two wire ports. Access is gained by dialing the extension number. The ringing will alert the DataPage II which will pick up the line.

Both of these interfaces contain line voltage isolation devices. There is total electrical isolation between the paging logic and DC power adapter, and the PBX side of the apparatus.

5.3 INSTALLATION

(SEE PRECAUTIONS, page 10)

Using the wire supplied, connect the DataPage II telephone option to one of the extensions on your PBX. This transmitter uses DTMF (analog) signaling. For digital systems, the unit must be plugged into the analog portion of a hybrid system or into an analog adapter card. Please consult your local telephone company for details.

5.4 USING THE SYSTEM

Numeric Pagers (Pocket Pagers)

STEP 1: CONNECT TO SYSTEM

- a. Dial paging system extension number
- b. Wait for sign-on tones (three notes escalating low to high)

STEP 2: ENTER PAGER NUMBER (OR GROUP NO.) TO BE CALLED

- a. Type pager number or group number
- b. Type * (or #, see note page 16)
- c. Wait for acceptance tone or proceed (single mid tone)

STEP 3: ENTER NUMERIC MESSAGE TO BE SENT

- a. Type a numeric message up to 12 digits
- b. Type * (or #, see note)
- c. Wait for sign-off tones (four tones high, low, high, low)
- d. Replace handset

Rejected data is signaled by a single low beep, re-enter data from step 2 or replace handset, wait for time out and start again.

Alphanumeric Pagers (Geo 40 Pagers)

Alphanumeric pagers can be used with this system when programmed to accept alphanumeric messages held within the transmitter.

STEP 1: CONNECT TO SYSTEM

- a. Dial paging system extension number
- b. Wait for sign-on tones (three notes escalating low to high)

STEP 2: ENTER PAGER NUMBER OR GROUP TO BE CALLED

- a. Type pager number or group number
- b. Type * (or #, see note)
- c. Wait for acceptance tone or proceed (single mid tone)

STEP 3: SEND TRIGGER FOR PRE-DEFINED MESSAGE.

Select one of the pre-defined messages from the table supplied with your pager manual.

- a. Type * (message number)
- b. Type *
- c. Type numeric message to be added on to the pre-defined message
- d. Type *
- e. Wait for sign-off tones (four tones high, low, high, low)
- f. Replace handset

Rejected data is signaled by a single low beep, re-enter data from step 2 or replace handset, wait for time out and start again.

NOTE: The symbol * is used to denote the STAR key on your telephone, which must be pressed wherever the * symbol appears in the text. On some telephone systems, the # key can be used instead and may be preferable in some instances. It is advisable to check ALL types of phones used on your exchange to decide which key works best with each phone type.

5.5 ADVANCED FEATURES

When proficient at using the system, you can speed up your paging by not waiting for the prompt tones. Simply enter the pager number message and listen for the sign-off tones. If you replace the handset prior to hearing the sign-off tones, the page will be aborted.

5.6 TONE ONLY PAGING

Numeric and alphanumeric pagers can receive "no-message" calls by entering * in place of the message.

6 LINE PORT INTERFACE (option)

6.1 QUICK START

Plug the Scope DC power adapter into the wall and connect the other end to the power input on the DataPage II Transmitter. Using the wire supplied, connect the DataPage II telephone extension to your PBX outside line input.

From a phone within your PBX system, pick up the outside line that the DataPage II is attached to. You will hear a three-tone "sign-on" from the DataPage II unit. Dial the pager number, i.e. 12 for pager twelve, then press *. Dial the numeric message to be sent to the pager and press * again. When finished, hang up. To page a pager without sending a message, simply dial the pager number and then press * three times.

6.2 OVERVIEW

IMPORTANT! This unit must not under any circumstances be connected direct to the public telephone network. It is only intended for indirect connection to an in-house telephone exchange. Any attempt to operate the unit other than as intended will invalidate all equipment warranties and may result in damage to the equipment, the telephone network or both.

The Scope Digital Paging Interface can be used to transmit numeric messages from any telephone connected to your exchange, direct to the pocket of the individual being paged. There are two types of interface available that cover all types of hybrid and PBX systems.

1) LP. This interface connects to an external line port. It automatically generates the 50-volts required for the line port. This unit will work with any telephone system that has an unused external line.

2) MF. This interface is only intended for use with systems dedicated to two wire ports. Access is gained by dialing the extension number. The ringing will alert the DataPage which will pick up the line.

Both of these interfaces contain line voltage isolation devices. There is total electrical isolation between the paging logic and DC power adapter, and the PBX side of the apparatus.

6.3 CONNECTING THE LINE PORT

(SEE PRECAUTIONS, page 10)

Using the wire provided, plug the system into an unused incoming line connection (i.e., line 5.)

For interface type LP, the A and B wire of the external line port are connected to the modular jack on terminals 2 and 5.

6.4 USING THE SYSTEM

Numeric Pagers (Pocket Pagers)

STEP 1: CONNECT TO SYSTEM

- a. Pick up the outside line the system is connected to
- b. Wait for sign-on tones (three notes escalating low to high)

STEP 2: ENTER PAGER NUMBER (OR GROUP NO.) TO BE CALLED

- a. Type pager number or group number
- b. Type * (or #, see note page 18)
- c. Wait for acceptance tone or proceed (single mid tone)

STEP 3: ENTER NUMERIC MESSAGE TO BE SENT

- a. Type a numeric message up to 12 digits
- b. Type * (or #, see note)
- c. Wait for sign-off tones (four tones high, low, high, low)
- d. Replace handset

Rejected data is signaled by a single low beep, re-enter data from step 2 or replace handset, wait for time out and start again.

Alphanumeric Pagers (Geo 40 Pagers)

Alphanumeric pagers can be used with this system when programmed to accept alphanumeric messages held within the transmitter.

STEP 1: CONNECT TO SYSTEM

- a. Pick up the outside line the system is connected to
- b. Wait for sign-on tones (three notes escalating low to high)

STEP 2: ENTER PAGER NUMBER OR GROUP TO BE CALLED

- a. Type pager number or group number
- b. Type * (or #, see note)
- c. Wait for acceptance tone or proceed (single mid tone)

STEP 3: SEND TRIGGER FOR PRE-DEFINED MESSAGE. Select one of the pre-defined messages from the table supplied with your pager manual.

- a. Type * (message number)
- b. Type *
- c. Type numeric message to be added on to the pre-defined message
- d. Type *
- e. Wait for sign-off tones (four tones high, low, high, low)
- f. Replace handset

Rejected data is signaled by a single low beep, re-enter data from step 2 or replace handset, wait for time out and start again.

NOTE: The symbol * is used to denote the STAR key on your telephone, which must be pressed wherever the * symbol appears in the text. On some telephone systems, the # key can be used instead and may be preferable in some instances. It is advisable to check ALL types of phones used on your exchange to decide which key works best with each phone type.

6.5 ADVANCED FEATURES

When proficient at using the system, you can speed up your paging by not waiting for the prompt tones. Simply enter the pager number message and listen for the sign-off tones. If you replace the handset prior to hearing the sign-off tones, the page will be aborted.

6.6 SPEED DIALING

It may be possible to effect some speed dial functions with your telephone system; however, telephone exchanges vary as to the way in which they perform depending upon their own internal protocol. With certain systems you may have to establish an audio connection with the port prior to sending the message. With other systems it may be possible to program pauses between accessing the port, sending the pager number, and sending the message. If this is possible, it will be necessary to extend the

'TIME BEFORE SIGN-ON TONES' to allow valid data to be sent before receiving the sign-on tones.

6.7 TONE ONLY PAGING

Numeric and alphanumeric pagers can receive "no-message" calls by entering * in place of the message.

7 SERIAL PORT INTERFACE (option)

7.1 QUICK START

Plug the Scope DC power adapter into the wall and connect the other end to the power input on the DataPage II Transmitter. Connect a serial cable between the transmitter and the computer's com port.

If you have purchased software with your system, it will allow you to page alpha or numeric pagers. If you wish to write your own software, please refer to the protocol section for information.

7.2 OVERVIEW

This option enables the unit to be driven by PC's, nurse call systems, fire, security, access control and monitoring systems and many other applications.

7.3 USING THE SYSTEM

The system is completely software controlled. The transmitter will automatically send pages received via its serial port. When not processing a serial transmission, the transmitter will still work as a standard numeric paging device.

7.4 PROTOCOL

Numeric Pagers (Pocket Pagers)

Example serial message string transmitted from the host to the transceiver:

```
N0012300A1234567890<CR>
```

The 'N' specifies that this message is a numeric page. Any data not preceded by this will be ignored. The maximum message length within the characters allowed for the numeric transmission format is 20.

After the N is a 7-digit pager identity number. All seven digits must be used, including any leading zeros.

The beep type letter follows the identity. Valid choices are A, B, C or D.

After this is the message to be transmitted, which can include:

'0'-'9', space, '-' (hyphen), 'U' (letter U for 'Urgent), '[,]' open/close square brackets, (open square brackets can also be used to identify the letter 'C' for 'Cancel). The final character sent is 'carriage return' <CR>, which is not transmitted but is necessary to terminate the end of the message.

On sending a message to the unit in the correct format the transcoder will immediately re-compose the string into the POCSAG format and transmit the same at the pre-programmed baud rate. The time taken to transmit the message is dependent upon the pager baud rate and the length of the message string.

Alphanumeric Pagers (Geo 40 Pagers)

Example serial message string:-
A0012300A This is a message <CR>

The data format is exactly as for numeric pagers, except that the recognition character at the front of the message is changed from an 'N' to an 'A' and the data can include the full alphabet (including both upper and lower case). The maximum message length will be from 512 to 2,000 characters depending on the software issue installed.

7.5 TRANSMISSION BAUD RATE

In the above example, the default baud rate is sent.

To change the transmission baud rate in a message string, placing the letter "N" after the "A" will alter it to 512 baud. Placing the letter "F" after the "A" will alter it to 1200 baud.

The default setting for transmission to pagers on Scope transmitters is 1200 baud.

MINI DIPOLE ANTENNA MOUNTING

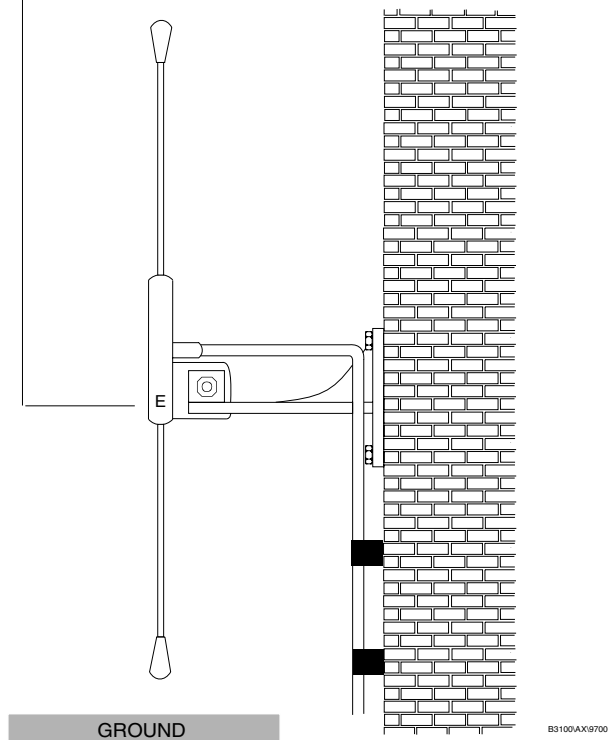
Optional Range Extender

For optimum operation, the dipole radiators must be positioned **vertically**, with the "E" symbol facing downwards toward the ground.

Avoid mounting the dipole on or near to any metal girders, pillars or other metallic obstructions.

The dipole should preferably be mounted at a height which avoids potential snagging with any moveable objects that might be used in the vicinity, i.e. ladders.

Ensure that the bracket is firmly bolted to a solid surface and that the feeder cable is adequately clamped along its entire run between the dipole and the transmitter/receiver.





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