



**Programming Manual**  
**For**  
**GEO 40A7 Alphanumeric Pager**

# Scope Communications UK Ltd

## GENERAL SPECIFICATIONS

- |                        |                                    |
|------------------------|------------------------------------|
| 1) Number of Addresses | 6, frame independent               |
| 2) Memory Size         | 10,000 character total             |
| 3) Display             | 5*8 dot matrix backlit LCD         |
| 4) Character           | 40 (2 lines of 20)                 |
| 5) Messages            | Maximum 60 private                 |
| 6) Message control     | Max. 239 char. per message         |
| 7) Public/ Private     | 24 folder / 6 addresses            |
| 8) Standby screen      | Month / Date / Year / Current Time |
| 9) Error Message       | Blinking character                 |
| 10) Number of Keys     | Fixed 4 keys                       |

# Scope Communications UK Ltd

## Programmer Kit

Pager Programmer (YO87)	1 off
Parallel Connection Cable	1 off
9V DC Adaptor	1 off
Program (V3.x)	1 off

## Connection

1) Connect the pager programmer to the PC parallel port using the connection cable provided. Fit the 9V DC Adaptor connection cable to the side of the Programmer Shoe. Confirm that the red indicator is lit.

2) Copy the programming S/W to your local hard disk.

## Programming

1) Start the program and select the relevant features on the two-page menu, as described below.

2) Remove the battery cover & battery from the pager and insert the pager into the shoe. Close the locking bar. Click on "Write to Pager" on the top toolbar. The screen will show progress and will confirm successful completion.

3) To review a pager's contents, click on "Read from Pager" on the top toolbar.

4) To save a configuration, select File, Save, on the top toolbar. The file can then be loaded for future use.

## FUNCTION & FEATURES

### Page 1 Address/Folder Menu

#### 1) [Address]

6 addresses, selectable as Private or Public. For operation with Scope paging systems, addresses must be set as Private. Each address can be Enabled/Disabled using the Tick box to the left of the Address. Each tone type for each address is independently selectable as Numeric, Alpha, Tone or Disabled. The Urgent Call function (see below) is selectable for all 6 addresses on any tone type (Tick box labelled "Uch"). All cap codes are frame independent. Capcodes must be within the following ranges: 8-2007663; 2007672-2045055; 2045064-2097143.

#### 2) [Message Folder]

Where addresses are set to Public (for wide area paging service only), up to 24 separate folders can be enabled.

### Page 2 Feature On/Off Menu

#### 3) [Num. Char Set]

"0..9AU -]" is the default setting for English use  
"0..9ABCDE" is for special character use only

#### 4) [Date/Time format]

D/M/Y 12h (UK Style, 12 hour clock)  
M/D/Y 12h (USA Style, 12 hour clock)  
D/M/Y 24h (UK Style, 24 hour clock)  
M/D/Y 24h (USA Style, 24 hour clock)

**5) [Public Folder Mode]**

Continuous or Discontinuous folder selection can be set (wide area paging only).

**6) [Repeat Call Check]**

Call tone dependence: call tone (beep type) and message must be the same to qualify as a repeat call.

Call tone independence: only the message needs to be the same.

Disable: no repeat call indicator function.

**7) [Repeat Msg Reject]**

Pager will not receive the same message within the set detecting time. Variable between 1-15 minutes.

**8) [Alert Time]**

Alert period is adjustable between 1-255 seconds.

**9) [Alert Mode]**

ABCD Tone: pager will respond and differentiate between four standard beep types (A, B, C, D).

Melody: pager menu will offer a selection of 10 melodies which can be manually set by the user.

**10) [Alert Type]**

User select: pager menu will offer the options of vibrate, tone, melodies, etc which can be manually set by the user.

Tone: pager is locked in tone (beep) mode only.

Vibrate: pager is locked in vibrate mode only.

Tone+vibrate: pager is locked in simultaneous Tone & Vibrate mode only.

### 11) [Vibrate Type]

When set in vibrate mode, various vibrate patterns can be set.  
Continuous: vibrate alert lasts for the duration of the Alert Time set.  
1 Hz pulse: vibrate pulses once a second for the Alert Time set.  
ABCD: vibrate pulses in sympathy with the ABCD call patterns.  
Special: distinct Scope preset vibrate pattern to easily distinguish between ABCD calls.

### 12) [Urgent Call Type]

Two Tone: two alternating tones give a distinct alert when the Urgent call mode is triggered.

Two Tone + Vibrate: as above but with additional vibrate pattern (corresponding to the Vibrate Type set\*)

\*when set to ABCD Vibrate, alert type is pattern A

### 13) [Range Indicator]

Allows display of antenna icon to indicate that the pager is either In or Out of range (applicable to wide area and supervised private paging only).

### 14) [Range Hold Time]

If the pager does not see sync from a transmission within the set time, it will display the In/Out of range icon. Settable between 1 and 15 minutes.

### 15) [LCD Hold Time]

The time that the display remains active after receiving a call. Adjustable between 1-255 seconds. "0" = always on.

### 16) [LCD Contrast]

Defines the preset display contrast. Settable range of 08-63. Default

## **Scope Communications UK Ltd**

value is 48.

### **17) [Remind Alert]**

A reminder alert beep can be set within the range 1-60 minutes.  
“0” = disabled.

### **18) Hand Program Password**

Four digit password which must be entered by user to access hand programming mode (Hand Program Tick box must be checked to enable this feature).

### **19) [Baud rate]**

Over air data transmission speed, must be set to match the system transmitter (if unsure of this, check with your dealer, stating the transmitter serial number).

### **20) [Data Polarity]**

Data can be sent from the transmitter in Normal or Inverted mode.  
Default is Normal.

### **21) [Channel Freq]**

The operating frequency of the pager in MHz, which must match the transmitter (if unsure of this, check with your dealer, stating the transmitter serial number).

### **22) [Max private No.]**

The maximum number of messages which will be stored. Adjustable within the range of 1-60.

### **23) [Language]**

Preset to English (UK).

**24) [Alarm]**

Alarm clock function. Tick box must be checked to enable the time set feature.

**25) Auto ON/OFF**

The pager can be set to power up and switch off at preset times, assisting in battery conservation. Auto On/Off Enable Tick box must be checked to enable this feature.

**26) [Low Cell Delay]**

When battery reaches low voltage (1.1V), this is the time period that the voltage must remain at that figure before the Low Battery alarm is triggered. The default is 16 seconds, which is normally used to prevent false alarms which might occur if the voltage momentarily dips to the preset level.

**27) [Hello Message]**

A message of up to 40 characters can be entered. This will be briefly displayed each time the pager is switched on.

**28) [Quiet Sound]**

When the Tick box is checked, the audible beep alert is reduced in volume, for more discrete use.

**29) Pager Off Menu**

When the Tick box is left blank, the "Pager Off" menu is inhibited on the display and the User is unable to switch off the pager.

**30) [Public folder Enable/Disable]**

For wide area paging only. Enables/disables access to the public folders.

**31) [Time Display]**

When Tick box is left blank, the time display (normally visible when pager is in standby mode) is inhibited.

**32) [Unread Message Indication]**

When Tick box is left blank, the unread message indicator is inhibited.

**33) [Message Status]**

When Tick box is checked, displays the message number and call type. This can either be pre-fixed or suffixed to the message using the “prefix” tick box.

**34) [Time Stamp]**

When Tick box is checked, messages will be time stamped. This can either be pre-fixed or suffixed to the message using the “prefix” tick box. Note that Time Display must be enabled.

**35) [Hand Program]**

When Tick box is checked, allows user to hand program the frequency, capcodes and baud rate settings.

**36) [Auto Spacing]**

When Tick box is checked, messages are auto spaced (word wrapped) on the display, to prevent part-words from being shown.

**37) [Message Lock Menu]**

When Tick box is checked, messages can be locked to prevent accidental erasure.

### **38) [Message Full Warning]**

When Tick box is checked, a “Message Full” warning will be shown on the display when the maximum number of messages has been reached.

### **39) [Low bat special alert]**

When Tick box is checked, to indicate low battery condition the pager will vibrate pattern B for 3 seconds every 15 minutes until the battery is changed. The low battery icon will also be shown on the display continuously until battery is replaced.

### **40) [Out of range special display]**

For use only with a Scope supervised transmitter system. When pager goes out of range, display will show “No Service” and vibrate continuously until reset by the user (pressing any button). A three second reminder vibrate alert will be sent every 15 minutes until the pager comes back into range.

### **41) [Alarm Function]**

When Tick box is checked, alarm clock function is enabled. Note: time display must also be enabled for this feature to operate.

### **42) [Auto On/Off Enable]**

When Tick box is checked, Auto On/Off function is enabled. See also item 25 above.

### **43) [Canned Message]**

When Tick box is checked, up to four preset messages of up to twenty characters in length can be entered. These are displayed by sending a tone only A, B, C or D call.

## Scope Communications UK Ltd

### 44) Over The Air Commands

The following OTA commands are executed by entering the command codes as shown below. In order for the code to work properly you must have the following set in the pager.

#### OTA Power OFF – [0091][0]

1. Identify a Cap Code Beep Type as Numeric. A, B, C or D.



A screenshot of a pager configuration interface. It features several input fields and dropdown menus. From left to right: a checked checkbox, a field containing '[6]', a field containing '0100008', a field containing '0', a dropdown menu with '0' selected, a dropdown menu with 'Private' selected, a dropdown menu with 'Numeric' selected, a dropdown menu with 'Alpha' selected, another dropdown menu with 'Alpha' selected, and a final dropdown menu with 'Alpha' selected.

2. Send **N0100008A[0091][0]** . The pager will turn off.

#### OTA MSG DEL – [0092][0]

1. Send **N0100008A[0092][0]** – All Memory will be cleared.

.....