GARDINER TECHNOLOGY

THE GARDTEC SPEECH DIALLER

Installation & Programming Instructions

Contents

1.0 INTRODUCTION

The Gardiner Technology Gardtec Speech Dialler is intended for use as an automatic message dialler. The primary use for the dialler is for connection to an alarm system although the unit is flexible enough to have many other uses where the need for automatic messages exists.

The dialler is fully programmable via an engineer code with limited programmable options available to the user via a user code. Once programmed the unit will retain all programmed settings (including speech), even in the event of a complete power down.

Up to four telephone numbers may be programmed into the dialler and call acknowledgment may be programmed on or off

The unit may be used with the Gardtec 800 Series of control panels (or Gardtec 580 via an interface) as a plug on unit, or hardwired to any other control panel that offers suitable outputs.

The dialler offers one common message (11 seconds duration) and up to three shorter messages (3 seconds duration each).

When connected to the Gardtec 800 Series or the Gardtec 580 (with interface) the dialler is powered and activated via the serial communications link to the control panel. If connected to other control equipment the dialler should be given a 12V d.c supply and is triggered via three start input terminals, the start polarity of these terminals is fully programmable.

Once triggered the dialler will dial the first telephone number, when the call is answered the common message will be played followed by one of the three short messages corresponding to alarm channels 1, 2 and 3 on the Gardtec (or inputs 1, 2 or 3 if controlled by other equipment). If acknowledge is programmed off the dialler will terminate the call after passing the message to the first telephone number , if no answer is obtained from telephone number 1 the unit will sequentially move on to the next telephone numbers until it is successful.

If acknowledge is programmed to on, the unit will dial the telephone numbers in the same way but the calls will require acknowledgement by the call recipient. The number of acknowledged calls require to terminate the dialling sequence is fully programmable by the user.

1.1 TELEPHONE LINE REQUIREMENTS

Before specifying the Gardtec Speech Dialler you should check that the following criteria can be met.

a) That the line can support DTMF dialling (Tone dialling)

b) That the dialler will not be connected to a 1+1 carrier system.

c) That the dialler will not be connected as an extension to a PABX.

d) That no other digital equipment will be used on the line (Fax etc).

The plug-on connector for the Gardtec 800 (or 580 with interface) or TB3 must connect with ports of other equipment eligible for the general approval NS/G/1234/J/00003 or otherwise approved for use with the Telephone Network.

It is essential that interconnection circuits should be such that the equipment continues to comply with the requirements of 4.2 of EN41003 for TNV (Telephone Network Voltage) circuits and 2.3 of EN60950 for SELV (Safety Extra Low Voltage) circuits after making connections between circuits.

1.2 APPROVAL

This apparatus has been approved for the use of the following facilities:

a) Auto-Calling
b) MF Tone Dialling

Any other usage will invalidate the approval of the apparatus if as a result it then ceases to comply with the standards which approval was granted.

Product Name:	Gardtec Speech Dialler
BABT Approval Number:	503519

2.0 DIALLER FIXING

Disconnect from BT line before removing cover(s)

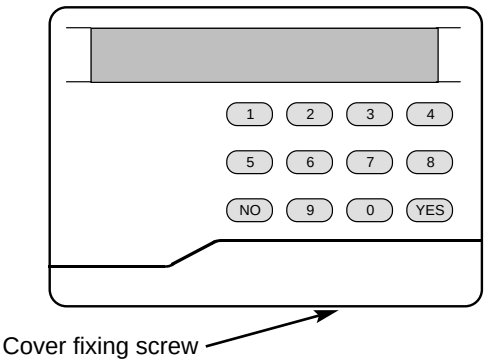
Remove the flap securing screw on the lower edge of the remote keypad casing (see Fig1.) and unclip the flap by moving outward and downward in one movement. **The area behind this panel is a restricted access/service area and is intended to be used only by the installer.**

Unclip the two cover retaining clips (situated at either side towards the bottom of the unit) and carefully lift forwards and upwards in one motion. Note the front cover and the P.C.B are one assembly.

Mark and drill the wall and fit suitable wall plugs. Feed the cable through a suitable entry in the backplate and fix the backplate to the wall using 3 x No.6 screws at least 30mm long.

Carefully hook the front cover onto the backplate at the top edge and, with the cable through the aperture in the front cover, snap the cover into place.After wiring has been completed replace the front flap and the flap fixing screw.

Fig 1.



3.0 TELEPHONE LINE CONNECTION

The unit is supplied pre-wired with a 3m length of telecom cable that is terminated with a standard BT type plug. If this is to be connected to a socket that is already in use or the cable not long enough an approved splitter or cable extension should be used.

The dialler has a REN1 rating, the maximum number of RENs that may be connected to the Telephone Network is 4. Each piece of approved equipment that is connected will state what REN rating it has, you should add together the RENs of all telephone equipment that you have connected, this total must not exceed 4.

3.1 CONNECTION TO GARDTEC *800 Series & 580*

Connection to the Gardtec *800 Series* (or Gardtec *580* via interface) is via the Speech Dialler Serial Lead Part No 04-070. The plug end of the lead should be connected to the Gardtec *800 Series* SK3 (Digigard Communicator) (or PLG1 on the *580* interface) the flying end should be connected to the dialler as shown below.

Dialler Terminal	**Flying Lead Core Colour**	**Function Panel to Dialler**
FLT	Yellow	DIN to DOUT
TRG1	Green	DOUT to DIN
TRG2	Black	CLOCK
0V	Blue	0V
12V	Red	12V

Program Gardtec *800* Digicom Type option to Digigard.
Program Gardtec *800* PA Mode to Bells Always or Silent
When the Speech Dialler is connected to the Gardtec *800* Alarm activation will trigger message 3, PA activation will trigger message 2 and channel 1 activation (as programmed) will trigger message 1.
The link between 12V and Line fault on the Gardtec *800* must be removed.

3.2 CONNECTION TO OTHER EQUIPMENT

The dialler may be connected to any equipment that is able to give a positive or negative output examples of this are given in Figs 2 to 5.

Fig 2.

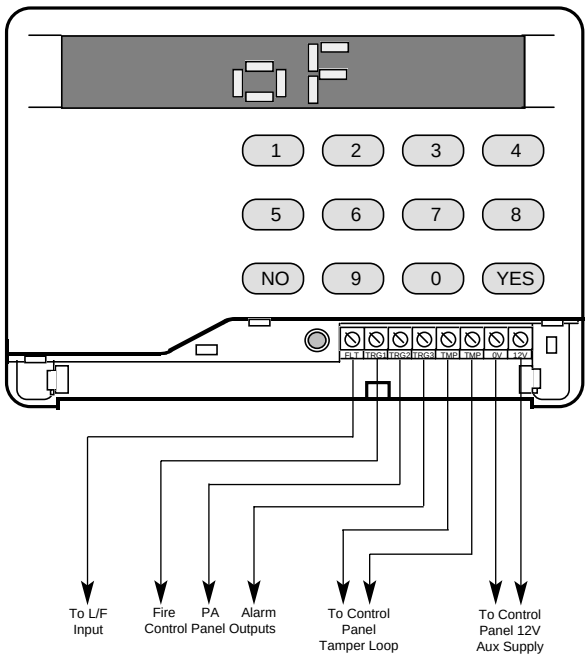
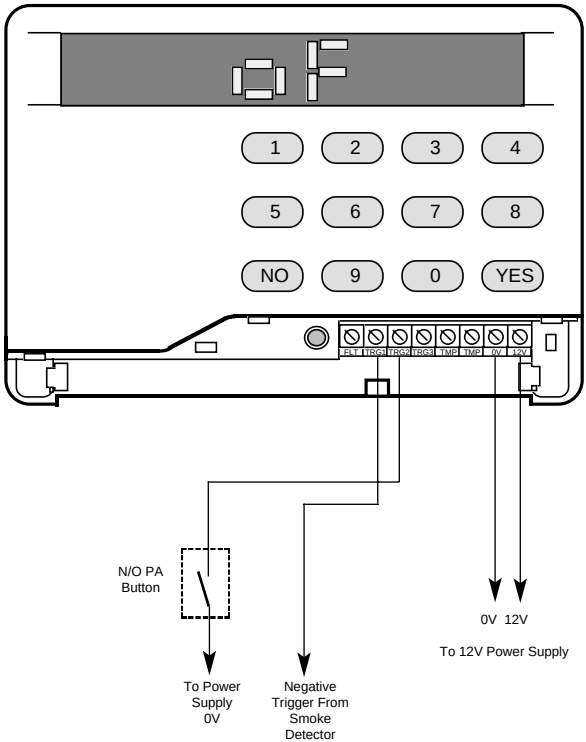
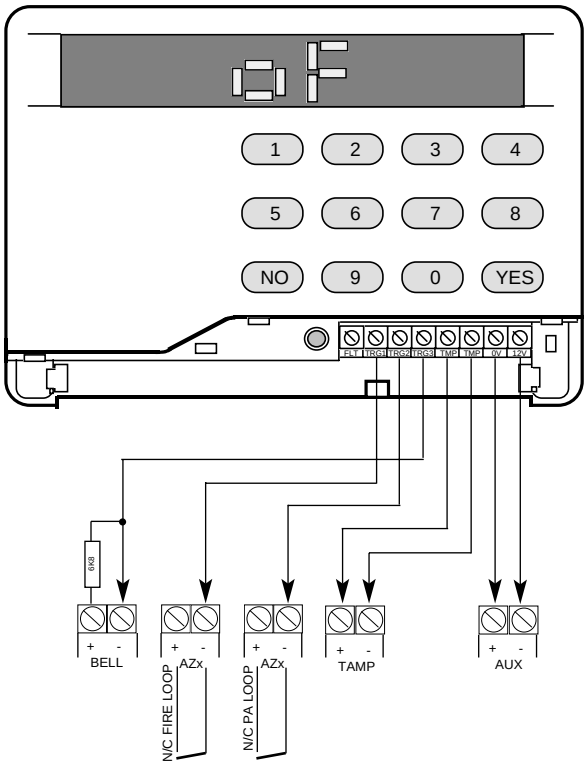


Fig 3. Typical connection for PA and Fire without connection to an alarm control panel.



Note: Unit should be programmed for negative start.

Fig 4. Typical connection to Gardtec *350/350+ (and 580 without interface)* giving Fire, PA and Alarm. Note the use of a 6K8 pull-up resistor across bell terminals.



Program Trigger Mode to Control Panel Trigger
Program Multi Trigger Inhibit to ON

4.0 TERMINAL DESCRIPTIONS

FLT **TB3 (SELV)**

This is the fault output and will change state when there is a failure to communicate, a cut telephone line or the supply voltage to the unit falls below 9.5V. The output is open collector held high through a 47K resistor. The output is normally high going low on fault.

The FLT terminal also doubles as Data OUT when the dialler is connected to a Gardtec *800 Series* or Gardtec *580* (via interface) by the serial lead (supplied with the dialler).

TRG1 TRG2 TRG3 **TB3 (SELV)**

These are the start input terminals, when triggered the dialler will dial out and when answered will pass the common message followed by the message number corresponding to the trigger terminal, e.g when TRG3 is triggered and the call is answered the common message will be played followed by message No 3.

The start polarity of the trigger terminals is programmable to +Ve or -Ve.

Recommended use of the trigger terminals would be as follows:-

TRG1 = Common + Message1 Fire message

TRG2 = Common + Message 2 PA Message

TRG 3= Common + Message 3 Intruder Message

TMP **TB3 (SELV)**

Two TMP terminals are provided. These terminals are connected to the cover flap tamper switch of the dialler and may be connected to the tamper circuit of the control equipment (if applicable).

0V & 12V **TB3 (SELV)**

Power supply connection terminals. Voltage applied to these terminals may be in the range 10 - 15V d.c it should be noted that a fault condition will be generated to both the fault output and communication port if this voltage falls below 9.5V. This condition will be restored when the voltage rises above 10.7V

TELEPHONE LINE CONNECTION **A & B (TNV)**

Factory connected to 3m BT lead.

5.0 PROGRAMMABLE USER OPTIONS

The dialler is fully programmable, all settings will be retained in the event of the dialler being down powered. A description of each option is given below:-

Emergency services must not be called with this equipment.

Repeat numbers will not be accepted by the dialler.

Telephone No 1
Any sequence of digits (Max fifteen digits).

Telephone No 2
Any sequence of digits (Max fifteen digits).

Telephone No 3
Any sequence of digits (Max fifteen digits).

Telephone No 4
Any sequence of digits (Max fifteen digits).

The user shall ensure all numbers are correctly entered.

Speech Messages

Common message
When the dialler is triggered and the call is answered the dialler will pass this common message followed by the short message corresponding to the trigger input. Speech for this common message may be up to 11 seconds duration, a typical message would be:-

"This is John Atherton 5 High Street Newtown, this is a...."

Short Message 1
This message corresponds to a trigger 1 input and will be played after the common message. Speech for short message 1 may be up to 3 seconds duration, a typical message would be:-

"Fire Alarm"

Short Message 2
This message corresponds to a trigger 2 input and will be played after the common message. Speech for short message 2 may be up to 3 seconds duration, a typical message would be:-

"Personal Attack"

Short Message 3
This message corresponds to a trigger 3 input and will be played after the common message. Speech for short message 3 may be up to 3 seconds duration, a typical message would be:-

"Burglar Alarm"

Once the speech message(s) have been programmed they may be replayed with or without the preceding common message

User Options

Change User Code
The user has the option (via the existing user code) to change the user code to any other four digit number. should the new user code be the same as the engineer code the dialler will display 'no' and the code will not be updated. The default user code is 5678

Change Dial Attempts
The dialler has a list of up to four telephone numbers, the number of dial attempts is the number of times it will try to dial these numbers. A successful call will be registered when the message is passed to the recipient (and acknowledged if required).

This option allows the number of times the dialler will dial the telephone numbers on the list to be programmed from 1 to 3 times.

Call Acknowledge
Call acknowledge may be programmed to 0, 1, 2, 3 or 4. If 0 is programmed the dialler will see when it has passed a message to the recipient and the dialler will then shut down. If programmed to 1, 2, 3 or 4 the dialler will give a tone after the message has been passed, this tone then has to be acknowledged by the recipient by pressing the # key for 1 second, the tone will be repeated and will need to be acknowledged again by pressing the # key. If the acknowledgement is accepted a triple tone will be given and the call will be registered as successful by the dialler.

This procedure will then be repeated to the other telephone numbers until the desired number of acknowledgments has been received. The default number of acknowledgments required is 1.

It is advisable that the total of telephone numbers you have programmed should be at least equal to the number of acknowledgments programmed.

View Last Call Log
This option allows the user to view the last call log. The log will give information as to the last telephone number dialled and what message was passed. Information is also stored concerning failure to communicate and aborted calls. The log is accessed by pressing the NO key when 'on' or 'oF' is displayed.

5.1 PROGRAMMABLE ENGINEER OPTIONS

The engineer has all the user programmable options available via the engineer code (factory default 1234) with the exception of programming the user code (the user code may only be changed when the user code has been used to access the system). Additional options (not available if the user code is used to access the system) are available via the engineer code, these options are shown below:-

Change Engineer Code
This option allows the engineer code to be changed, any four digits may be used but the dialler will not allow the user code to be duplicated.

Change Trigger Mode
This option allows the trigger polarity to be changed to one of three options, it should be noted that this option is overridden if Serial Comms is On.

1) Negative trigger allows the dialler to be triggered by a negative signal.

2) Positive trigger allows the dialler to be triggered by a positive signal.

3) Control Panel trigger, this mode allows the dialler to be triggered directly from the zone inputs and bell output of the Gardtec *350* (or Gardtec *580* without interface) see Fig4. When used in this mode the Multi-Trigger Inhibit option should also be turned ON.

The default trigger polarity is negative trigger.

Line Monitor Security Mode
This option allows the security of the line fault monitor to be programmed, the two options available are shown below:-

Low Security Mode
When programmed this mode monitors the telephone line and will not register a linefault until the line voltage falls below 4 volts. This mode should be used when the dialler is being used on a line sharing other equipment.

High Security Mode
When programmed this mode monitors the telephone line and will not register a linefault until the line voltage falls below 35 volts. This mode should only be used when the dialler is being used on an exclusive line (not shared by any other equipment).

The default setting is Low Security.

Clear FTC (FS) by User Code
In the event that the dialler Fails to Speak (FS) the display will show 'FS' (Fail to Speak). This would normally occur if calls from the dialler where not answered. If the option is 'ON' the display may be reset by entering a valid code.

If this option is programmed 'OF' the display will be reset by a successful communication.

The default for this option is ON (clear by user code).

5.2 SPECIAL FEATURES

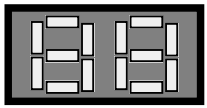
Three Way Call Feature
In the event that the dialler is being used on a shared line and the telephone line is engaged by an incoming call the dialler will detect that the telephone is ringing, and when triggered will park the incoming call, obtain a new line and then continue with the dialling sequence.

In order for this desirable feature to operate you should contact your telephone operating company and obtain star services three way calling for your telephone line.

6.0 INITIAL POWER UP

The dialler is supplied from the factory with a set of defaults pre-loaded, these defaults will be adequate for the majority of installations with the exception of at least one telephone number, and at least one common and alarm message.

When the unit is first powered up the display will show:-



For the first eight seconds.

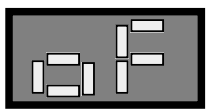
If the dialler has previously been programmed, one of the factory default reset modes may be used (see engineers appendix 2).

When the eight seconds has expired the display will show:-

For up to one minute.
During this period the dialler is running a self calibration routine

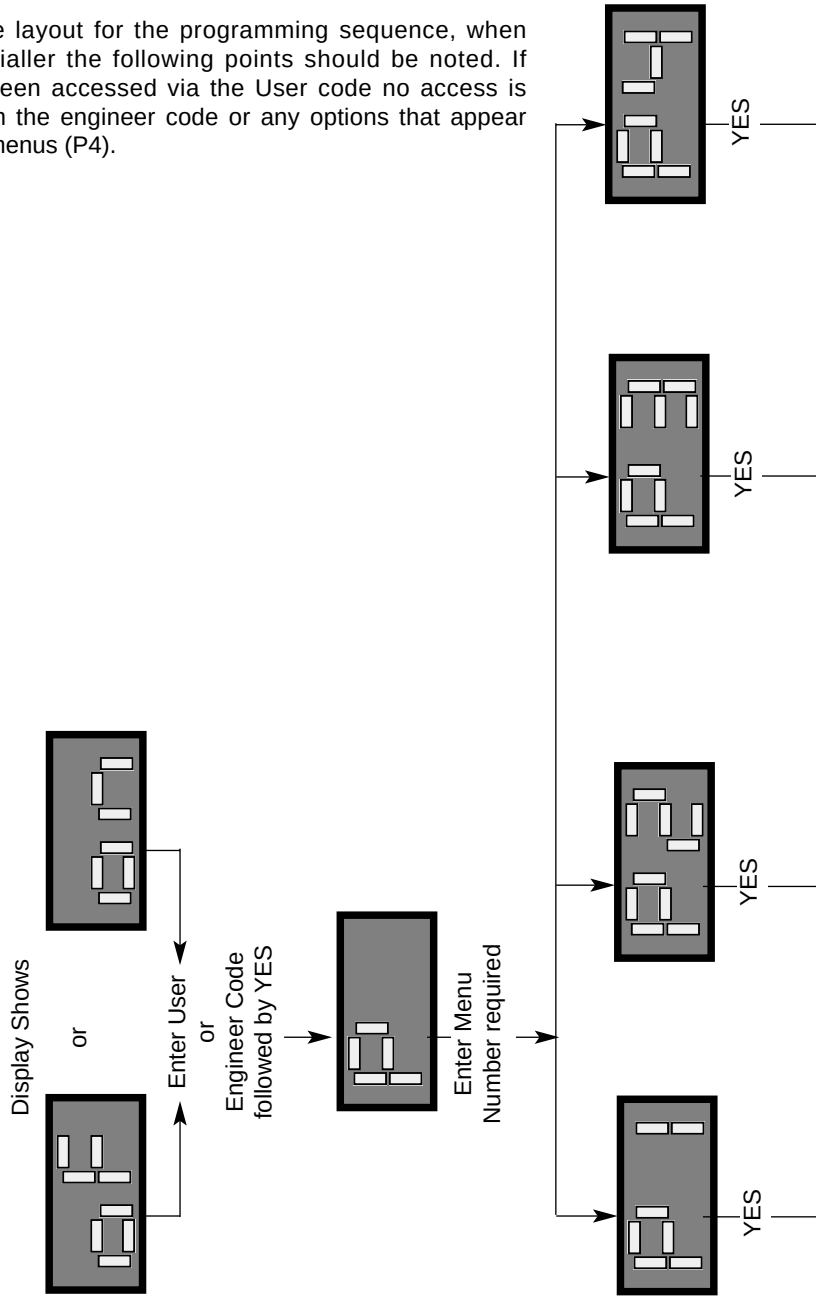
After the calibration routine has finished the display will show one of the following:-

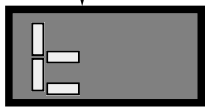
The 'on' display shows the unit is turned on and is ready for a trigger, the 'oF' display shows the unit is turned off.
If the 'oF' display is flashing the unit needs to be programmed with at least one telephone number and one common and alarm message.



7.0 PROGRAMMING

Shown below is the layout for the programming sequence, when programming the dialler the following points should be noted. If programming has been accessed via the User code no access is available to program the engineer code or any options that appear under the engineer menus (P4).





Options available in the **t**elephone Menu are:-

1) Telephone No 1

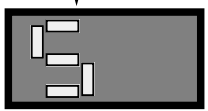
2) Telephone No 2

3) Telephone No 3

4) Telephone No 4

For more details refer to section 7.1

Note:
Whilst within this menu telephone numbers may be Viewed, Deleted or Programmed.



Options available in the **S**peech Menu are:-

9) Common Message

1) Short Message 1

2) Short Message 2

3) Short Message 3

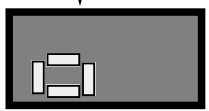
5) Play Comm+Short 1

6) Play Comm+Short 2

7) Play Comm+Short 3

For more details refer to section 7.2

Note:
Whilst within this menu messages may be Listened to, Deleted or Programmed.



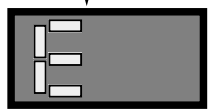
Options available in the **o**ptions Menu are:-

1) Change User Code
(See Section 7.3)

2) Change Dial Attempts
(See section 7.4)

3) Change Call Acknowledge
(See section 7.5)

Note:
Engineer has no option to change User Code.



Options available in the **E**ngineer Menu are:-

1) For future use

2) Change Engineer Code
(See section 7.7)

3) Change Trigger Mode
(See section 7.8)

4) Linefault Monitor
(See section 7.9)

5) Multi-Trigger Inhibit
(See section 7.10)

6) Serial Comms On/Off
(See section 7.11)

7) FTC (FS) Clear by User Code
(See section 7.12)

8) Factory Test

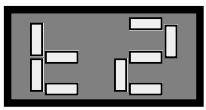
Note:
User Code has no ability to change the Engineer Options.

7.1 PROGRAMMING TELEPHONE NUMBERS

Enter the Telephone Number menu (refer to section 7.0).

1) With the display showing:-

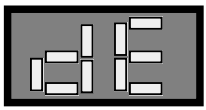
2) Enter the Telephone Number you wish to view, delete or program. If 2 was entered the display would show:-



3) Pressing NO will display the number then return to step 1

or

4) Press YES to delete or program.The display will flash:-



This is asking if you wish to delete the existing Telephone Number

5) Pressing YES will delete the number and return to step 1

or

6) Pressing NO will flash:-
The existing telephone Number may now be re-programmed

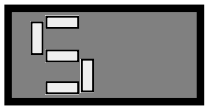
7) Enter the required number (whilst the number is being entered pressing NO will abort to step 1 without updating the number). After the number has been entered press YES. The dialler will now return to step1.

8) Other numbers may now be viewed, deleted or programmed. Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

7.2 PROGRAMMING MESSAGES

Enter the Speech menu (refer to section 7.0)

1) With the display showing:-



2) Enter the message option number from the following list

Option 9 Play/Delete/Record Common Message

Option 1 Play/Delete/Record Message 1

Option 2 Play/Delete/Record Message 2

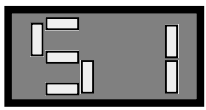
Option 3 Play/Delete/Record Message 3

Option 5 **Play** Common & message1

Option 6 **Play** Common & message 2

Option 7 **Play** Common & message 3

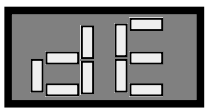
If 1 was entered the display would show:-



3) Pressing NO will play the message then return to step 1

or

4) Press YES to delete or program the message (not applicable to options 5, 6 or 7). The display will flash:-

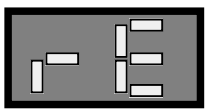


This is asking if you wish to delete the existing message.

5) Pressing YES will delete the message and return to step 1

or

6) Pressing NO will allow the existing message to be re-programmed. If NO has been pressed the display will show:-



7) At this display you should speak your message into the dialler at a distance of approximately six inches (15cm)

Common message length is eleven seconds, if your message is shorter than this the recording time it may be terminated by pressing the 0 key.

Message 1, 2 or 3 lengths are three seconds each.

At the end of the recording the dialler will return to step 1

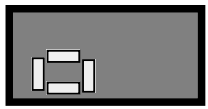
8) Other messages may now be listened to, programmed or deleted. Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

7.3 PROGRAMMING USER CODE

It should be noted that the user code may only be re-programmed if the programming mode has been accessed using the user code.

Enter the Options menu (refer to section 7.0)

1) With the display showing:-



2) Enter 1 followed by YES. The display will flash:-

3) Enter your new four digit code followed by YES (If NO is pressed during code entry the code will not be updated).

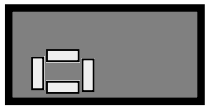
The dialler will now return to step 1.

4) Pressing 0 once will return to the 'P' display or twice will return to the 'oF' or 'on' state.

7.4 PROGRAMMING DIAL ATTEMPTS

Enter the options Menu (refer to section 7.0)

1) With the display showing:-



2) Enter 2. If NO is pressed the current number of dial attempts will be shown and the dialler will return to step 1

   or

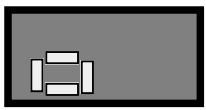
   If YES is pressed the current number of dial attempts will be displayed, this may be changed by using the 1, 2 or 3keys. When you are satisfied with the number shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'oF' or 'on' state.

7.5 PROGRAMMING CALL ACKNOWLEDGE

Enter the options Menu (refer to section 7.0)

1) With the display showing:-



2) Enter 3. If NO is pressed the current number of call acknowledgments required will be shown and the dialler will return to step 1.

   or

   If YES is pressed the current number of call acknowledgments required will be displayed, this may be changed by using the 1, 2, 3 or 4 keys. When you are satisfied with the number shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'oF' or 'on' state.

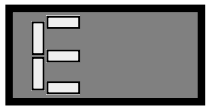
Call recipients must have a DTMF (Tone) telephone to use this feature

7.7 PROGRAMMING ENGINEER CODE

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-



2) Enter 2 followed by YES. The display will flash:-

3) Enter your new four digit code followed by YES (If NO is pressed during code entry the code will not be updated).

The dialler will now return to step 1.

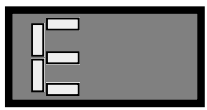
4) Pressing o once will return to the 'P' display or twice will return to the 'oF' or 'on' state.

7.8 PROGRAMMING TRIGGER MODE

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-

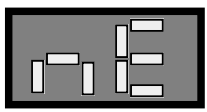


2) Enter 3. If NO is pressed the current Trigger Mode will be displayed and the and the dialler will return to step 1.

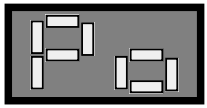
or

If YES is pressed the current Trigger Mode will be displayed. Press NO to change the Trigger Mode to one of the following:-

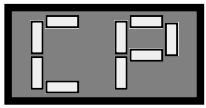
For negative trigger with internal pull-up resistors switched in.



For positive trigger with internal pull-down resistors.



For negative trigger with internal pull-up resistors switched out.



When you are satisfied with the Trigger Mode shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

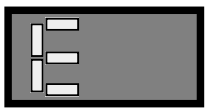
Note: No access will be allowed to this section if serial comms mode is programmed to ON

7.9 PROGRAMMING LINEFAULT MONITOR

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-

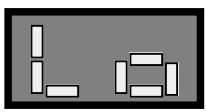


2) Enter 4. If NO is pressed the current Linefault Monitor voltage will be displayed and the dialler will return to step 1.

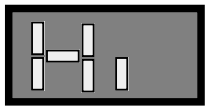
or

If YES is pressed the current Linefault Monitor will be displayed. Press NO to change the Linefault Monitor to one of the following:-

4 volt monitor for lines sharing with other equipment.



35 volt monitor for lines not sharing with other equipment.



When you are satisfied with the Linefault Monitor shown press YES and the dialler will return to step 1.

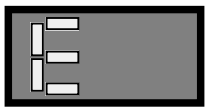
3) Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

7.10 PROGRAMMING MULTI-TRIGGER INHIBIT

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-



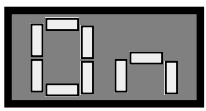
2) Enter 5. If NO is pressed the current Multi-Trigger Inhibit state will be displayed and the dialler will return to step 1.

or

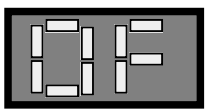
If YES is pressed the current Multi-Trigger Inhibit state will be displayed.

Press NO to change the Multi-Trigger Inhibit to one of the following:-

Multi-Trigger Inhibit is ON



Multi-Trigger Inhibit is OFF



When you are satisfied with the Multi-Trigger mode shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

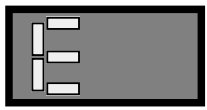
Note: Multi-Trigger Inhibit should be programmed to ON if the trigger mode is programmed for 'CP'

7.11 PROGRAMMING SERIAL COMMS

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-

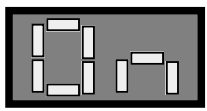


2) Enter 6. If NO is pressed the current Serial Comms state will be displayed and the dialler will return to step 1.

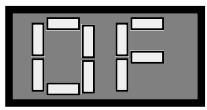
or

If YES is pressed the current Serial Comms mode will be displayed. Press NO to change the Serial Comms to one of the following:-

Serial Comms ON



Serial Comms OFF



When you are satisfied with the Serial Comms mode shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

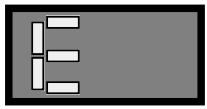
Note: Serial Comms should only be programmed ON when the dialler is being used with the Gardtec 800 Series or the Gardtec 580 with Digigard interface.

7.12 FTC (FS) CLEAR BY CODE

No access is available to this option via the user code, it may only be accessed via the engineer code.

Enter the engineers Menu (refer to section 7.0)

1) With the display showing:-

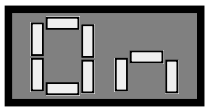


2) Enter 7. If NO is pressed the current FTC Clear by Code state will be displayed and the dialler will return to step 1.

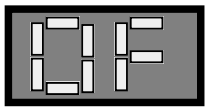
or

If YES is pressed the current FTC Clear by Code state will be displayed. Press NO to change the Serial Comms to one of the following:-

Clear by Code ON



Clear by Code OFF



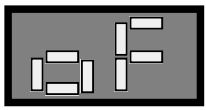
When you are satisfied with the mode shown press YES and the dialler will return to step 1.

3) Pressing 0 once will return to the 'P' display or twice will return to the 'on' or 'oF' state.

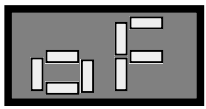
8.0 USING THE DIALLER

With the dialler **not** in programming mode one of the following displays will be showing:-

Flashing 'oF'
The dialler is Off and cannot be turned On because it does not have the minimum requirement of at least one message and one telephone number programmed.



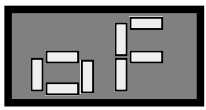
Static 'oF'
The dialler is turned OFF. To turn the dialler ON enter the user code (5678 default) followed by NO.



The display will show:-

Static 'on'
The dialler is turned ON and will dial when triggered. To turn the dialler OFF enter the user code (5678 default) followed by NO.

The display will show:-

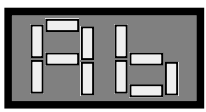


8.1 ABORTING CALLS

Calls from the dialler may be aborted if they have been triggered accidentally.

To abort a call enter the code (factory default 5678).

Provided the dialler has not started to play the speech message the display will show:-



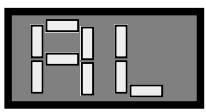
For three seconds

If this display does not show then either

a) The dialler was not triggered

or

b) If the dialler had already started to pass the message the display will show:-
as the code is entered



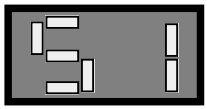
If the dialler has already passed the message you should check the Last Call Log (refer to section 7.6).

8.2 VIEWING LAST CALL LOG

1) With the dialler in the ON or Off state, press NO

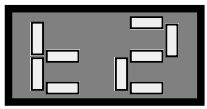
2) The display will show the speech message that was last sent and the telephone number it sent to. For example:-

Speech Message 1 was sent



to

Telephone Number 2

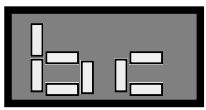


The dialler will then return to its original state.

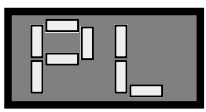
9.0 ERROR MESSAGES

The following messages may appear on the display.

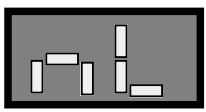
Bad Checksum
A bad checksum has been returned, the dialler will reboot and attempt to recalibrate .



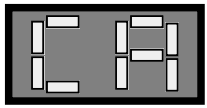
Poor Lock
A poor lock has occurred with the Phase Lock Loop.The dialler will reboot and attempt to recalibrate.



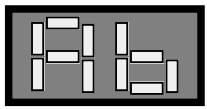
No Lock
No lock has occurred for the Phase Lock Lock Loop. The dialler will reboot and attempt to recalibrate.



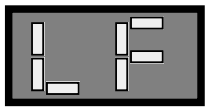
Call Abort
The last call was aborted by the user, this message would only be seen by viewing the last call log



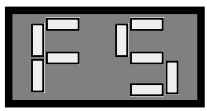
Abort
The current dialling sequence has been aborted (e.g the user or engineer code has been entered).



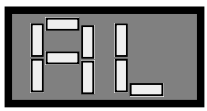
Line Fault
A Line Fault has occurred, the display will return to normal when the line is reinstated.



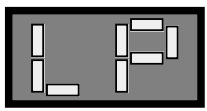
Fail to Speak
The dialler has failed to pass the speech message(s), this may be due to a line fault being present as the dialler was attempting to dial. The display may be cleared by either a successful communication or entering the user code (dependant on the status of the FTC (FS) clear by user code option *see 7.12*).



Alarm
The call was aborted after the message had started to play. The last call log may be used to determine who the called person was.



Low Power
Voltage to the dialler has fallen to 9.5V or lower



10.0 GUARDIAN (Call Recipient) GUIDE

The call recipient or Guardian should be given one of the Guardian slips that are provide with the unit. The user of the the Gardtec Speech Dialler should ensure that the Guardian is aware that his telephone number may be used and that the Guardian is instructed on what action to take in the event of an 'alarm' call.

The Guardian should also be informed as to the acknowledge feature being turned ON or OFF.

It should be noted that if the call acknowledge feature is used the Guardians telephone will need to be a DTMF (Tone) type in order to give the acknowledgement signal required.

If a call from the Gardtec speech dialler is received by a Guardian the following instructions should be followed:-

1) When the telephone is answered a series of 'Granny Tones' (single blips) will be heard for two seconds.

2) The Gardtec Speech will then pass the common message (containing the name and address of the caller), followed by one or more short message(s) (containing the type of alarm.g Fire, P.A, Burglar).

3) If call acknowledge has been programmed OFF the unit will then close down or go on to dial other Guardians (as programmed).

   or

   If call acknowledge has been programmed ON the dialler will give a tone after the messages have passed, this tone should be acknowledged by the Guardian by pressing the # key on the telephone for at least one second (if the first acknowledge tone is missed the Speech Dialler will repeat the messages and the tone again). When the first acknowledge tone is accepted the Speech Dialler will give a second tone that should be acknowledged again by the Guardian pressing the # key again.

4) When the tone has been acknowledged twice the Speech Dialler will shut down or go on to dial other Guardians (as programmed).

5) Once a call has been received (and acknowledged if programmed) the Guardian should respond in accordance with the instructions given.

11.1 ENGINEER APPENDIX 1

	Default Settings	Programmed Setting
Telephone No's 1 to 4	Unprogrammed	
Common Message	Unprogrammed	
Short Message 1 to 3	Unprogrammed	
User Code	5678	
Dial Attempts	3	
Call acknowledge	1	
Engineer Code	1234	
Trigger Polarity	-ve	
Line Monitor	Low 4V	
Multi Trigger Inhibit	Off	
Serial Comms	Off	
FTC (Fail to Speak) Clear by User Code	On	

11.1 ENGINEER APPENDIX 2

Reset Modes.
Two reset modes are available to the engineer. Mode 1 reset will reset all programmed settings to factory defaults (including user and engineer codes). Mode 2 will reset the user and engineer codes.

Reset Mode 1.

1) Remove all power from the Gardtec Speech Dialler for at least five seconds.

2) Re-apply power to the unit

3) Whilst '88' is displayed (the first 8 seconds) Press 4 6 YES NO

4) The unit will return all programmed settings to factory defaults and re-calibrate (this may take up to one minute).

Reset Mode 2.

1) Remove all power from the Gardtec Speech Dialler for at least five seconds.

2) Re-apply power to the unit

3) Whilst '88' is displayed (the first 8 seconds) Press 1 9 YES NO

4) The unit will return user and engineer codes to factory defaults and re-calibrate (this may take up to one minute).

12.0 APPENDIX 3 ADVANCED FEATURES V2.0 ONWARDS

The following advanced features have been added to the Gardtec Speech Dialler from version 2.0 onwards.

1) Dial Pause. This enable the user to insert a four second pause as the second digit in any telephone number *(refer to 12.1 for further details).*

2) Pager Compatibility. The Gardtec Speech Dialler is now compatible with the following numeric Pagers:-

BT	*Easyreach*
Vodaphone	*Premierline*
Mercury	*Page1 Minicall*

(refer to 12.2 for further details).

12.1 DIAL PAUSE

When programming telephone numbers a pause will be inserted if the NO key is pressed for the second digit. Pressing the NO key again will insert a second pause. Each pause will be four seconds duration and will be displayed as a P on the display both whilst programming and viewing the telephone numbers. This feature allows the Speech Dialler to be used with many common switchboards.

12.2 PAGER OPTIONS

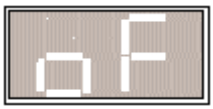
Five new options have been added to the User Menu (P3 section 7.0) these are:-

Option No.	Feature	Description
1	Unchanged	N/A
2	Unchanged	N/A
3	Unchanged	N/A
4	Set Pager to Tel No.	Allows any of the four telephone numbers to be allocated as Pager numbers.
5	Set Pager 16 digit message	Allows up to 16 digit message to be programmed, typically return Tel No. (optional).
6	Set Pager 4 digit Site Code	Allows a four digit site code to be programmed (optional).
7	Set Pager Message Type	Determines what will be sent to the Pager. Choose from Message, Site Code or Both. Default is Message
8	Set Pager Make	Allows the make of Pager to be set. Choose from BT, Vodaphone or Mercury. Default is BT

To program the Pager options proceed as follows

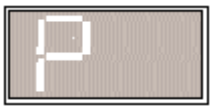
1) Ensure the Speech Dialler has previously been programmed with at least one telephone number and a common message (refer to section 7.0).

2) With the display showing:-

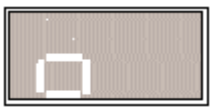


or

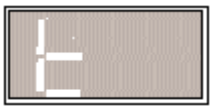
Enter the User Code (5678 default) followed by yes.
The display will show:-



3) Press 3 followed by YES
The display will show:-



4) To program the Set Pager to Tel No. Press 4 followed by YES or go to step 7 to skip this option.
The display will show:-



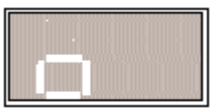
5) Enter the Telephone Number you wish to allocate as a Pager Number (e.g Tel No. 1, 2, 3 or 4).

If the display flashes (for example t1) the number is not currently allocated as a Pager Number pressing YES will allocate it and the display will stop flashing.

If the display shows (for example t1) without flashing the number is already allocated as a Pager Number pressing NO will deselect it and the display will flash

Repeat this step for all Telephone Numbers you wish to allocate as Pager Numbers.

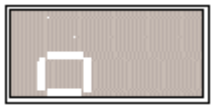
6) Press 0 the display will return to:-



7) To program the Set Pager 16 digit message press 5 followed by YES (pressing NO will display the currently stored Pager message) or go to step 10 to skip this option.
The display will flash showing:-

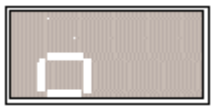
8) Enter the Digits you require the Pager to display (If you intend to also send a Site Code only the first 13 digits of this message will be sent to the Pager).

9) Press YES. The display will show:-

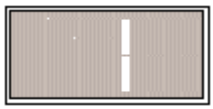


10) To program the Set Pager 4 digit site code press 6 followed by YES (pressing NO will display the current Site Code) or go to step 12 to skip this option.
The display will flash showing:-

11) Enter the Digits you require followed by YES.
The display will show:-

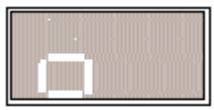


12) To program the Set Pager message type press 7 followed by YES (pressing NO will display the current message type) or go to step 14 to skip this option.
The display will show for example:-

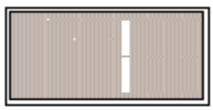


13) Choose from
1 Send only the Message to the Pager (if programmed)
2 Send only the Site Code (if programmed)
3 Send Both (if programmed)

Enter your required Digit followed by YES.
The display will show:-

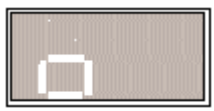


14) To program the Pager Make press 8 followed by YES (pressing NO will display the current Pager Make) or go to step 16 to skip this option.
The display will show for example:-



15) Choose from
1 BT *Easyreach* (Default)
2 Vodaphone *Premierline*
3 Mercury *Page1 Minicall*

Enter your required Digit followed by YES.
The display will show:-

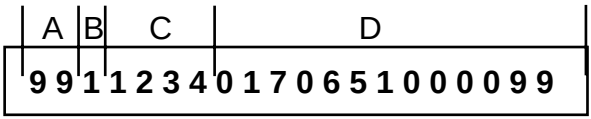


16) This completes the Pager programming. To escape press o twice.

12.3 USING YOUR PAGER WITH THE GARDTEC SPEECH DIALLER

Once the Gardtec Speech Dialler has been programmed any alarm signals will be sent to your Pager, the message displayed by the Pager will depend on the programmed settings of the Speech Dialler. A breakdown of a Pager display is given in Fig1. Your Pager may still be used for receiving standard (customer dialled) numeric messages in addition to Speech Dialler numeric messages.

Fig1. Pager display breakdown



The Pager scroll buttons may need to be used to display all the message

A = Gardtec Speech Dialler Identifier (Always 99).
B = Trigger (The channel triggered on the Speech Dialler).
C = Four Digit Site Code (Optional).
D = Message (Usually return Telephone Number) 16 Digits if no Site Code is used.
13 Digits if Site Code is used.

Note: It is important that the Call Acknowledgement and Number of Dial Attempt features are fully understood.Please refer to sections 5.0, 7.4 & 7.5

The Pager feature does not decrement the Call Acknowledgments. For example if the Pager is the first Telephone Number and a relative is the second and Call Acknowledgement is set to 1 the Pager would be dialled followed by the relative who would still be required to acknowledge the call.

The digit shown in position B Fig1. relates to the trigger input terminals of the Speech Dialler and should be used in conjunction with the list below.

Digit Displayed Position B Fig1.	Channel(s) Triggered
1	1
2	2
3	3
4	3 & 1
5	3 & 2
6	3 & 2 & 1
7	2 & 1

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