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# **LP GUARD DOORSTATION MK II**



## **Manufactures of:**

**Emergency Lift Telephones  
Emergency Telephone Systems  
Emergency Services Telephones  
Industrial Telephones  
Hygienic Environment Telephones  
Freeway Telephones  
Rugged Environment Telephones  
Hotel Telephones**

**Prisoner Telephones  
Prisoner Phone Monitor Systems  
Security Door phones  
Door phones  
Loud Ringer Horns  
High Voltage Line Isolators  
Loudspeaking Telephones**

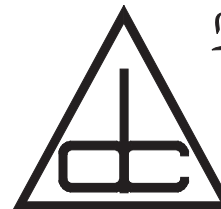
**and  
they're  
All**



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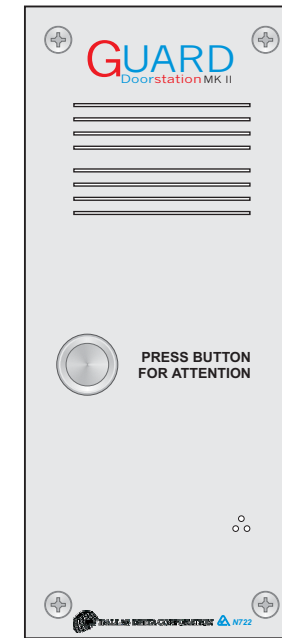


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**Please Note;** While in local programming mode, dial tone or busy tone will be heard faintly. This is *normal* as the Sentry uses power from the telephone line for programming purposes.

## 8.0 INSTALLATION DETAILS



This end plugs into the RJ45 (8 way) connector on the pcb.

The unit is supplied with a RJ45 junction box as well as a RJ45 jumper lead to link the board and the junction box. All connections are made on the screw terminals at the junction box as illustrated adjacent.

**Please Note;** All wiring and devices connected to the DDCLP7 LIFT must be rated for Telecommunications Network Voltages (TNV).

## 6.0 DEFAULT PARAMETERS

### *For Installation staff and DDC eyes only*

The unit can be initialized either remotely or via the local keypad (if fitted). To initialize the unit, ring the unit and enter programming mode by entering the default pin number (123#). After the beep, enter **37#289574#**. **Note**; you have 5 seconds to begin entering the pin number from the time the unit answers. During this time, the microphone is muted. If no pin is entered the unit goes into conversation mode,

The unit will beep if OK. This resets the pin number to 123, and loads in the defaults as noted in the previous pages. For local initialization, enter **D37#289574#**.

**Note** that for a newly manufactured unit (ie, un-initialized eeprom) the pin number defaults to 123.

## 7.0 SPECIFICATIONS

### PSTN

Exchange Line or Analog PABX ext. 24-50V  
@15-100mA

R.E.N 1

### DTMF

Tone duration 80ms  
Inter-digit pause 80ms  
Pause 2.5 seconds

**Relays** Voltage free outputs  
switching max. 60Vdc/40Vac

### Physical

Dimensions (mm) 225 x 100 x 40

Weight 700g

## 1.0 PRODUCT INFORMATION

- . **Hands free amplifier,**
  - . Line powered, no need for a separate power supply.
  - . Full duplex handsfree operation.
  - . Output volume in excess of 300 MW.
- . **Microphone & speaker levels,**
  - . Adjustable and set for all calls to suit background noise levels,
  - . Adjustable during call by remote operator to suit varied noise levels.
- . **Single button dialling,**
  - . Emergency numbers can be up to 16 digits long (max 4 push buttons),
  - . A second and third alternative number can be called if the number dialled by **Button one** is busy or unanswered (*optional*)..
  - . A pause can be added as part of the number,
  - . The time the emergency button(s) is required to be held on before a call is made is adjustable.
- . **Call termination,**
  - . The unit will terminate the call if PSTN busy tone or NU tone is detected. There are two programmable busy tone detectors (see page 9).
  - . If 20 seconds of silence has elapsed (this time is programmable),
  - . The user can set a time for call duration, i.e. if the unit is on call for as long as the set time, the call will be terminated,
  - . The remote operator in conversation with the doorstation is able to terminate the call by entering **ⓧⓧ** on their keypad.
- . **Identification made easy,**
  - . The unit can identify itself during a call when voice is detected, or when **ⓧ** is pressed by the remote operator.
  - . The call button can also be used for interactive response. When pressed during a call a tone is sent.
- . **Control,**
  - . The unit can be fitted with 2 on board relays (optional).
  - . Relay1 can be operated when the unit goes off hook or by the remote operator.
  - . Relay 2 can only be activated by the remote operator.
- . **Easy programming,**
  - . All programming can be made locally (if optional key pad fitted) at the unit or remotely using a standard touch tone telephone.
  - . Programming is separated into two sections, **Short Cut** and **Advanced** programming. Most applications require only **Short Cut** programming, the advanced area further customizes your Doorstation telephone.
- . **Remote diagnostics,**
  - . The microphone and speaker can be tested by the remote operator by pressing **ⓧ** on the remote keypad.

## 2.0 OPERATING INSTRUCTIONS

**Dial number -** This is the default setting. When the button is pressed, the unit will dial the pre-programmed number.

**Hot line -** Programmable option; When the button is pressed, the unit will simply loop the line. On reception of busy tone or silence detect, it will release the line.

In each of the above modes, the unit immediately enters conversation mode. In this mode the remote telephone keypad has the following functions:

- [1] Increase microphone sensitivity
- [4] Decrease microphone sensitivity

Function has 2 steps.

- [3] Increase speaker volume
- [6] Decrease speaker volume

Function has 8 steps.

- [8] Sends the DTMF ID number
- [5] Resets the RUNTIME timer (single beep 1 minute prior to timeout)
- [9] This tests the speaker and microphone. The amplifier and speaker are internally disconnected from the telephone circuit and DTMF digits 1,2,3 are played twice out of the speaker. If the digits can be heard by the caller, then the speaker and microphone are operational.

# [1] or  
[0] [1] Operates Relay 1 for programmed on time.

# [2] or  
[0] [2] Operates Relay 2 for programmed on time.

On detection of busy tone or NU tone, the unit will release the line. The unit will also release when the RUNTIME has expired or the unit does not detect a suitable sound level for the specified silence detect time.

\*[\*] Hang up (Unit will send 2 beeps, then release the line).

## 5.0 PROGRAMMING PARAMETERS (CONT)

	Programming Instruction	Range	Factory Setting
*	[Ⓜ] 46 # Relay 1 mode # beep	1 loop or 0 normal	0 normal
	[Ⓜ] 47 # Auto answer # beep	1 no. - 0 yes.	0 yes
&	[Ⓜ] 48 # Interactive button 1 # beep	1 yes. - 0 no.	0 no
	[Ⓜ] 50 # PUSH ON/PUSH OFF # beep	1 yes. - 0 no.	0 no
[B]	[Ⓜ] 56 # Runtime # beep	1 to 99 minutes	10 min
[C]	[Ⓜ] 57 # Button on time # beep	1 to 99 (100 ms steps)	10 (1 sec)
	[Ⓜ] 58 # Silence detect time # beep	0 - 99 seconds	20 secs
	[Ⓜ] 59 # Speaker level # beep	1 min - 8 max	8
*	[Ⓜ] 61 # Relay 1 ontime # beep	0 to 99 seconds	2 secs
	[Ⓜ] 62 # Relay 2 ontime # beep	1 to 99 seconds	2 secs
	[Ⓜ] 63 # Alt number dial # beep	1 to 99 seconds	60 secs
	[Ⓜ] 64 # Ring cycle # beep	1 to 9	2
#	[Ⓜ] 65 # Busy tone ON # beep	1 to 99 (50 ms steps)	10 (500ms)
#	[Ⓜ] 66 # Busy tone OFF # beep	1 to 99 (50 ms steps)	10 (500ms)

\* Note: These two parameters are linked. If 'Relay 1 mode' (46) is set to loop and 'Relay 1 ontime' (61) is set to 0, Relay 1 will switch on for the duration of the call (ie as long as the unit is 'off hook'). If 'Relay 1 ontime' is not 0, Relay 1 will switch on when the unit goes 'off hook' then will switch off once the duration of 'relay 1 ontime' has expired.

# Note: See page 9 for details. & Note: See page 9 for details.

## INTERACTIVE MODE

Interactive mode causes a beep to be sent to line when the button is pressed once the call has been established. When this mode is off, the programmed number for that button is dialed.

To enable Interactive mode: (D) 48 # 1 #

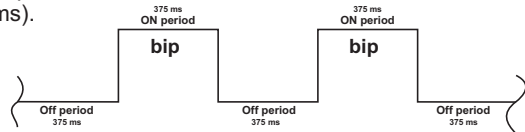
To exit Local and remote programming mode, type [\*][\*]. The unit will then hang up.

Any error while entering data in programming mode is indicated by 2 beeps. The programming option number then has to be entered again, followed by the data.

## 4.0 ADVANCED LOCAL AND REMOTE PROGRAMMING

The cadence of busy tone can vary from system to system. For example, the standard busy tone generated by the PSTN is 375 ms ON and 375 ms OFF, whereas some PABX's have 500 ms ON and 500 ms OFF. Each ON period is a burst of 425 hz. *Note:* The unit has inbuilt detection of PSTN busy tone and NU tone. The unit recognizes frequencies from 380 Hz to 660Hz as valid busy tone frequencies.

To enable the Doorstation to recognize the various cadences, the ON and OFF periods of the detection system are programmable in 50 ms steps. The default parameters are set to 500 ms ON and 500 ms OFF (see page 7). The system will recognize a tone 100 ms either side of the programmed period ( 500 ms +/- 100 ms).



Typical PSTN busy tone signal

For example, to program the Doorstation to work with a PABX with 500 ms ON and OFF periods, set the ON period thus; 50ms x 10 = 500 ms;

**[☐] 65 # Busy tone ON # beep      1 to 99 (50 ms steps)   10 (500ms)**

and the OFF period thus; 50ms x 10 = 500 ms

**[☐] 66 # Busy tone OFF # beep      1 to 99 (50 ms steps)   10 (500ms)**

## 5.0 PROGRAMMING PARAMETERS

Programming Instruction	Range	Factory Setting
<b>[☐] (1-4) # Call number(s)# beep</b>	up to 16 digits	123
<b>[☐] 5 # Alt number 1(butt 1)# beep</b>	up to 16 digits	123
<b>[☐] 6 # Alt number 2(butt 1)# beep</b>	up to 16 digits	123
<b>[☐] 38 # Pin number # beep</b>	up to 16 digits	123
<b>[☐] 39 # ID number # beep</b>	up to 16 digits	123
<b>[☐] 40 # Mic Level # beep</b>	1min. - 2max.	Level 2
<b>[☐] 41 # Silence detect # beep</b>	0 off or 1 on	1 on.
<b>[☐] 42 # Hot line # beep</b>	1 hotline or 0 normal	0 normal
<b>[☐] 43 # ID on voice detect # beep</b>	0 no. - 1 yes.	1 yes
<b>[☐] 45 # Alt number enable # beep</b>	0 off. - 1 on.	0 off

## 2.0 OPERATING INSTRUCTIONS (CONT)

### Free dial mode

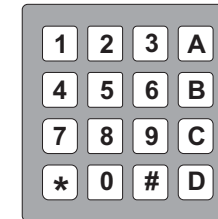
- #** Unit goes on line and user is able to dial a number.  
*Note;* this option is only available for units fitted with a local keypad.

On detection of busy tone or NU tone, the unit will release the line. The unit will also release when the RUNTIME has expired or the unit does not detect a suitable sound level for the specified silence detect time.

- \* \*** Hang up (Unit will send 2 beeps, then release the line).

## 3.0 SHORT CUT KEYPAD PROGRAMMING OPTIONS

For units fitted with the optional keypad, the most commonly used programming options can be accessed using the short cut keys as shown below.



**Emergency Number (Button 1 only)**      **A**      long beep      New number      **#**      long beep

**Run Time (in minutes)**      **B**      long beep      (0-99)      **#**      long beep

**Button On Time (in 100 m/s steps)**      **C**      long beep      (0-99)      **#**      long beep

**Advanced Settings**      **D**      long beep      settings\*      **#**      long beep

\* See over for Local and Remote Advanced Programming setting.

## 4.0 ADVANCED LOCAL AND REMOTE PROGRAMMING

For *remote* programming call the unit from a touch tone telephone (eg, a Touchfone 200). The unit will answer with 1 beep. After the beep, the user has 5 seconds to begin entering the pin number (default pin = 123#) Note; the microphone is muted during this time period. After 5 seconds and no dtmf digit is received, the unit will enter conversation mode. If the pin number is correct, the unit will answer with 1 beep. Two beeps indicates a wrong pin number. The user is allowed 3 tries to enter the correct pin number. After the third incorrect attempt, the unit will release the line.

For *local* keypad (if fitted) programming, the codes are the same except  $\square$  on the keypad is pressed first, as denoted by the  $\square$  below. There is a *long beep* when  $\square$  is first pressed and a long beep when the last  $\square$  is pressed. Other programming can be entered. A double beep means 'error, enter sequence again'. Press  $\square\square$  to exit programming mode.

For example, to change the call number, look up section 5.0 on page 7 to find the parameter relating to call number programming.

Programming Instruction	Range	Factory Setting
$\square$ 1 # call number # beep	up to 16 digits	123

*This instruction is the same as the programming Short cut  $\square$ .*  
*To insert a pause into the dialling string, enter a  $\square$ .*  
*The pause is 2.5 seconds.*  
*Eg. Setting the call number to 9999-1234.*

**1 # 99991234 # beep**

**Note:** Do not enter two  $\square$  together, as the unit will hang up.  
 See also **Alternative call numbers 1 and 2.**

**Alternative number 1 (prog inst 5)** will be called if the **Call number (prog inst 1)** is busy or does not answer. **Alternative number 2 (prog inst 6)** will be called if **Alternative number 1** is busy or does not answer. To switch this option on and off, see prog. inst. **45**. The time between calls is set using prog inst **63**. This is the time in seconds the unit will wait for the call to be answered before hanging up and dialling the alternative number.

To explain the above example:

- |   |                  |                            |
|---|------------------|----------------------------|
| 1 | Parameter number | 1                          |
| 2 | Enter            | $\square$                  |
| 3 | Parameter value  | call number (eg 9999-1234) |
| 4 | Enter            | $\square$ stores data      |
| 5 | long beep        |                            |

$\square\square$  Exit **local** and **remote** programming mode.

## 4.0 ADVANCED LOCAL AND REMOTE PROGRAMMING

To make the unit work as a hotline, enter the following while in program mode:

Programming Instruction	Range	Factory Setting
$\square$ 4 2 # 1 # beep	0 off or 1 on	0 off

The call buttons can be programmed to work in PUSH ON/ PUSH OFF mode in either handset or handsfree mode. To call press the button. To finish the call press the button again.

Programming Instruction	Range	Factory Setting
$\square$ 5 0 # 1 # beep	0 no or 1 yes	0 no

$\square\square$  Exit **local** and **remote** programming mode.