



Australian  
Made



User  
Friendly



Low Cost  
Ownership



Vandal  
Resistant

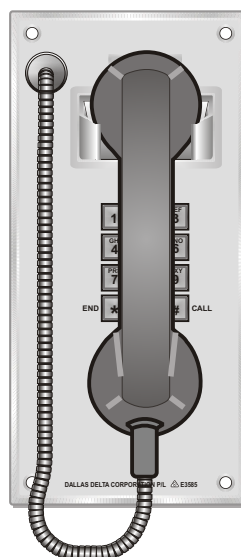
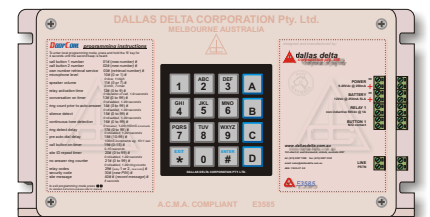
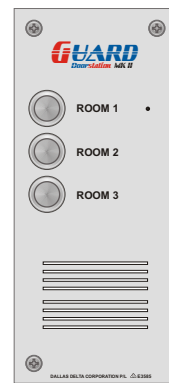
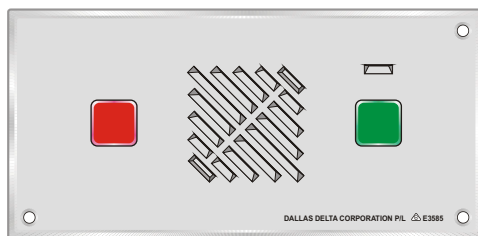


Weather  
Resistant

# DoorCom<sup>mk4</sup>

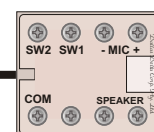
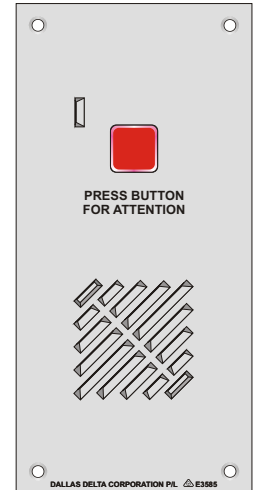
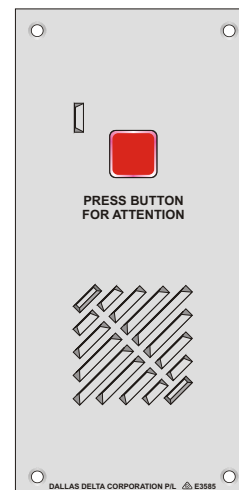
## User's Manual

Sentry / Guard Doorstation



**MASTER**

**SLAVE**



102 Albert Steet Brunswick East VIC Australia 3057

tel: (+613) 9387 7388 | fax: (+613) 9387 3128

sales@dallasdelta.com | www.dallasdelta.com

---

# INDEX

FEATURES . . . . .	3
OPERATION	
Relay Control . . . . .	4
Site Identification . . . . .	5
Calling Alternative Number . . . . .	5
After Hours Service Number . . . . .	5
Hang Up Facilities . . . . .	6
KEYPAD FUNCTIONS	
Programing the DoorCom . . . . .	7
Making a test call . . . . .	7
Retrieve own number . . . . .	7
Volume control . . . . .	7
Keyless access . . . . .	7
LOCAL PROGRAMMING INSTRUCTIONS	
Summary . . . . .	8
Recording messages . . . . .	15
Message Control Switch . . . . .	15
Setting the Clock . . . . .	16
Defaulting parameters . . . . .	16
REMOTE PROGRAMMING. . . . .	19
Checking parameters . . . . .	19
PCB LAYOUT . . . . .	20
LIFT PHONE ENCLOSURE. . . . .	21
CONNECTION DETAILS. . . . .	21
INSTALLATION DETAILS	
Warning . . . . .	22
Electrical requirements . . . . .	22
Mounting details. . . . .	22

---

# PRODUCT INFORMATION

## HELP POINT TELEPHONE

### Model DoorCom

The **DoorCom** is a Loudspeaking, **Microprocessor Controlled Help Point Telephone**. Many features have been incorporated in this model making the unit user friendly and reliable. This document outlines the units Features, Operation, Programming instructions and Installation procedures.

## DoorCom FEATURES

Hands free amplifier with an output volume in excess of 1 Watt peak.

*Please request a handset version if required*

15 speaker volume levels set via software, locally or remotely.

Volume levels may be adjusted during the call to suit background noise levels.

Multi-number dialling, on units fitted with multiple buttons or front panel keypad.

Up to 16 digits programmable per number.

Site identification facilities, the unit is able to transmit an 8 second voice message at programmable Intervals to identify the units location.

Adjustable conversation timer.

Button or remote, activation of relay/s

Voice message on button press.

Adjustable relay on timer or on for the duration of the call.

Call an alternative number on busy or no answer.

Programmable after hours call divert number.

7 alarm inputs (optional)

All options can be programmed locally or remotely via a standard tone type telephone.

Keyless entry facilities ( for keypad version)

Multi-line capabilities are available on request.

---

## OPERATION

The DoorCom has many features and can be configured to function as a gate access handsfree phone or supplied with a handset. Generally fitted with one button on the face panel, this can be increased to 16 buttons.

Most times the installer would only need to change the phone number to call and it's set to go. The phone can be configured for many other features, so carefully read each of the options to verify which setting may best suit your site.

When the button is pressed, the user will hear a brief message to maintain the button pressed if they wish to proceed with the call, then after the preset button hold period the telephone will make a call as programmed for that button or alternatively call an after hours service number as set by the divert time periods.

When the DoorCom receives an incoming call the unit will automatically answer after a set ring count. It is then possible to proceed with normal conversation or enter a \*# followed by the security code if remote programming is required.

In conversation mode, features included are: volume adjust, remote relay control or replay a voice message that identifies the site.

### **Volume Adjust:**

The remote operator in conversation with a DoorCom is able to control the volume level of the call to cater for the varying background noise conditions.

**\*1** and **\*4** control the **DoorCom's** microphone output level. Enter **\*1** key to increase the level or **\*4** key to decrease level. (15 levels)

**\*3** and **\*6** control the **DoorCom's** speaker volume level. Enter **\*3** key to increase the level and the **\*6** key to decrease the level. (15 levels)

These volume level adjustments are not permanent and will return to the preset levels at the end of the call. (refer to option 10# & 11#)

## RELAY CONTROL

### **Remotely:**

Remote activation of the on-board relay/s is achieved by typing the code for that relay. For example, if relay 1 code is set to 95, then typing 95 will activate it, *(refer to programming instruction 29 on setting the codes for each relay and option 12 for relay on times).*

A tone will indicate that the code was correct and the relay has activated. No response tone indicates an error. Retry after a minimum 4 second delay.

### **Locally:**

If configured, the button can be used to activate relay 2 if it is held on for more than 3 seconds, the relay will stay on for the 'relay on time' (option 12#) or till the button is released. This function generally used in lifts, to trigger an alarm bell to warn local tenants that someone is unable to exit the lift.

*(This feature is configured in option 25# 1x #.)*

---

## OPERATION continue.

### **Key-less Gate control**

The relays may also be activated by a code entered via a keypad (if fitted).

There are 6 codes each up to 8 digits long. See page 14, option 26#.

To use the keyless function, start by entering a \* followed by the code.

### **Site Identification Voice Message:**

The DoorCom can play a pre-recorded voice message to identify the units location. Refer to option 40# on recording this message and option 20# to set a repeat timer. The message may be replayed by typing \*8 on the remote telephone. It should be noted that typing \*8 will also disable the repeat timer.

It is possible to record the site message both locally or remotely. If this message is not required, disable it with option switch 81#1 0#, refer to page 17.

An example of an outgoing voice message might be as follows:

*"This is a call from, Lift Number 1 at 102 Albert street East Brunswick.  
Dial \*8 to repeat this message."*

An active alarm/s message will be appended to the site message, if any are active. See option 49# and option 81#6x#.

### **Calling Alternative Number option.**

The DoorCom may be configured to call an alternative number if the first number does not answer, to enable this option, set the ring count parameter 21# to a number of rings and set the alternative telephone number in location 09# and 60#.

To disable this feature, set parameter 21# to 0.

The same alternative numbers are called for models fitted with more than one button.

### **After hour service number.**

A time period may be set to call an after hours emergency / caretaker number. This number will over ride all buttons (on multi button units), and should this number not answered the unit will still attempt to make a call using the alternative number as describe above.

Refer to parameter 27# to set the after hours number and parameter 28# and 70# to set the time diversion periods.

Also, check the DLS option 81#7x# and set the time in location 50#

---

## OPERATION continue.

### Hang up facilities:

There are various ways the unit will automatically disconnect a call, this includes engaged tone, silence detect, continuous tone and a run duration timer or it may be manually disconnected by the user or the remote operator.

These are described as follows;

- Engaged tone - If the unit detects a valid engaged signal (tone frequency and cadence), it will automatically hang up.
- Silence detect - If a period of silence longer than that set in option 15# *(in seconds)* is detected during the call the unit will automatically hang up. This option may be disabled by setting program option 15# 0 #.
- Run timer - The conversation timer can be set from 1 to 99 minutes, the unit will beep 3 times then hang up once this time has elapsed. To disable this timer enter 0 for option 13#
- User hang up - The remote operator in conversation with a DoorCom is able to force the unit to hang up by dialling \*\* within a 1 second time frame.  
The unit may also be programmed to end the call when the call button is repressed. (refer to option 25# 1x #)
- Continuous tone - This will automatically disconnects the call on the detection of continuous tone for a period longer than that set in option 16# (each interval = 100mS).  
*(Some PABX's produce this type of tone when engaged.)*
- After Gate Access - The option to end the call after the gate has been activate. Refer to option 25#5x#.

## WARNING

**This telephone can not be used for emergency purposes during power failure unless fitted with a backup 12 volt battery!**

---

## KEYPAD FUNCTIONS

The keypad mounted on the rear or front of the DoorCom provides the installer access to program the unit, make test calls and use the TELSTRA / OPTUS function to retrieve the phone number of the line the unit is connected to.

### Programing the DoorCom

On front panel keypad models, press and hold the \* key for 4 seconds then entry the PIN plus a #.

For rear keypad units the B key can be used to bypass the enter PIN routine. The phone will echo the S/W version once in programming mode.

Options are outlined on pages 8 to 18. At anytime type \*\* to exit programming mode.

### Making a test call. 'D'

Press **D** to loop the line, then dial the number required. Press **D** again to go off line. If the line is engaged or the other party hangs up the unit will automatically disconnect.

### Retrieve own number 'A+ 1 or 2'

TELSTRA and OPTUS both provide a service that informs the caller of the telephone number for that line.

Enter **A+1**, For TELSTRA this number is **12722123**. This is the default number already programmed in the DoorCom. (refer to location **00#** )

Enter **A+2** on OPTUS lines. Location **62#** is programed to **1272312**.

The number retrieved should be recorded and supplied to the off site manager to enable future remote programming of the unit.

### Volume control 'B' & 'C'

Whilst on line the speaker volume may be increased by pressing **B** or decreased by pressing **C**. These adjustments only remain as set for the duration of the call and do not affect the default level. To set the default level refer to program option 11# on page 10.

### Keyless access (keypad version only)

Keyless entry may be used to open a gate latch connected to relay 1 or 2, it is available for units fitted with a front panel keypad and the unit embraces 6 different codes.

To enable this feature, first set option switch 25#61# and set your codes in parameter 26#1-6. Refer to '**optional switches**' 25# 6 {0 or 1} # on page 13 and **keyless entry codes** on page 14.

To gain keyless access, (whilst the unit is idle) the tenant will require to type \* followed by keyless code. Example if a code is set to '1567' then type **\*1567**. The first digit of the code will select which relay to open. Therefore, all keyless codes must be programmed to start with either 1 or 2.



---

# LOCAL PROGRAMMING INSTRUCTIONS

A PIN is required to access programming for units where the keypad is mounted on the front panel, alternatively if the model you have is supplied with a programming keypad mounted on the enclosure lid, then no PIN is required. To access local programming for each model then,

- A) Face panel keypad, Press and hold the \* key for 4 seconds, after a beep,  
enter the PIN followed by a # *i.e. \* (then after 4 seconds)beep **123** # beep* or  
B) Rear panel keypad, Press and hold the **B** key for 4 seconds until it  
response with a beep.

At anytime you wish to exit programming mode type ' \* \* '. Programming mode will also exit automatically if no key is pressed within 20 seconds. The factory set PIN is '123'.

## Program index

DESCRIPTION	CODE	PAGE
Programming telephone numbers (for buttons 1 to 8).	01-08 #	10
Own number retrieval service for Telstra lines	00 #	10
1st divert number	09 #	10
Microphone level	10 #	10
Speaker level	11 #	10
Relay on time	12 #	10
Conversation time	13 #	10
Ring counter	14 #	11
Silence period	15 #	11
Continuous tone period	16 #	11
Ring detect start delay	17 #	11
Dial delay period	18 #	11
Button on timer	19 #	11
Site ID repeat timer	20 #	11
No answer ring counter	21 #	11
Relay control switches	22 #	12
Active buttons control switch	23 #	12
Push to talk control	24 #	12
Operation control switches 1		13
Button repressed control	25 # 1 0 or 1 #	
Keypad function, 1st digit dials preset number	25 # 2 0 or 1 #	
Relay activation format ( #-rlyNo-Code )	25 # 3 0 or 1 #	
Allow Gate access on in-comming calls	25 # 4 0 or 1 #	
Switch off after gate activation	25 # 5 0 or 1 #	
Keyless entry (keypad version)	25 # 6 0 or 1 #	
Speed dial control (keypad version)	25 # 7 0 or 1 #	
Disable relay control during divert periods	25 # 8 0 or 1 #	
Keyless entry codes (keypad version)	26 # 1-6	13
1st After hours call number	27 #	13
1st After hours divert period	28 #	13
Relay codes (for remote activation)	29 # 1-2	13
Security code	30 #	13
Latch code for relays	31 # 1	15
Latch release code	31 # 2	15
Recorded Messages		
Site Message	40 #	15
Button messages	41 # to 48 #	15
Message Control Switch	49# 1-8	15
Set Current Date & Time	50#	16

NOTE: The default settings may vary from that shown in the following pages.



---

## LOCAL PROGRAMMING INSTRUCTIONS cont..

### Program index

DESCRIPTION	CODE	PAGE
Handset volume	35 #	16
Ring Volume	36 #	16
Relay Default state	37 #	16
Speed dial numbers 1-6	63 - 68 #	16
2nd After hours divert period	70 #	16

## Advance features

### Program index

DESCRIPTION	CODE	PAGE
Programming telephone numbers (for buttons 9 to 16).	51-58 #	16
Own number retrieval service for Optus lines	62 #	10

Operation control switches 2		17
Play Site message control	81 # 1 0 or 1 #	
Play Button pressed message	81 # 2 0 or 1 #	
Play pre-site message	81 # 3 0 or 1 #	
Play "Acknowledge" message	81 # 4 0 or 1 #	
Do a line test & play message	81 # 5 0 or 1 #	
Send current input alarm status message	81 # 6 0 or 1 #	
Enable Day Light Saving (DLS) for clock	81 # 7 0 or 1 #	
Handset fitted	81 # 8 0 or 1 #	
Pre-Recorded messages		
When the button is pressed	82#	17
Call introduction message	83#	17
Acknowledge message	84#	17
No phone line message	85#	17
Welcome message	86#	18
Call in progress message	87#	18
Message Sequence Control	81#	18

NOTE: The default settings may vary from that shown in the following pages.

---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Programming telephone numbers.

The DoorCom may be configured with 1 to 16 call buttons, each button can be programmed to call a number up to 16 digits long. To program a number for each button, enter the button location number, # then the new telephone number followed by a # to save.

IE: to program a new number for the button 1 enter,

**01# NEW NUMBER #.**

If the unit is fitted with additional buttons then program each number into location 02-08 & 51-58

#### Note

- 1) Use the '\*' key to include a 3 second pause within the number. Two consecutive '\*'s can not be entered.
- 2) If the keypad is configured to do speed dialling (option 25#21#) then the key pressed will dial the number stored in the location corresponding to that key ( this is for the keys 1 to 9 only)

### No Answer or Busy telephone number

Call diversion on no answer or busy, (*refer to option 21#*) will dial the number in location **09#**

To delete a number for Hotline operation (*Loop only no dialling*) then enter the location and two #'s  
IE. set button 1 to hotline, **01 ##.** (N/A, on speed dial locations).

**Always** add the leading 0 in locations 00-09#

To confirm a number then enter the location followed by a \* .

### Own number retrieval service

The **TELSTRA** number retrieval service **12722123** has been preset in location **00#**

To re-assign this number enter

**00 # new number #**

The **OPTUS** number retrieval service **1272312** has been preset in location **62#**

To re-assign this number enter

**62 # new number #**

When the unit is connected to one of these providers, the telephone number of the line can be retrieved by entering **A1** for **TELSTRA**, or **A2** for **OPTUS**.

### Operational Parameters.

#### Pre-set microphone level.

*Default = 5*

**10 # (0 to 15) #**

0 = set microphone level to min.

15 = set microphone level to max.

#### Pre-set speaker volume level.

*Default = 5*

**11 # (0 to 15) #,**

0 = min. volume.

15 = max. volume

#### Relay activation time (in seconds)

*Default = 5*

**12 # (0 to 99) #**

0 = On for the duration of the call

or 1 to 99 seconds

This option sets the relay on time once the relay is activated by either the remote operator, the telephone user or configured to switch on when a call is made. (For additional information, please refer to the following sections, **relay codes**, **button repressed** option and **relay control** at startup)

#### Conversation on timer (set in minutes)

*Default = 3*

**13 # (0 to 99) #**

0 = will disable the run timer

or 1 to 99 minutes

This timer sets the maximum conversation period before the telephone will automatically disconnect each party and returns to standby.

---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Ring count prior to auto-answer

*Default = 2*

### 14 # (0 to 99) #

0 = never auto answer an incoming call.  
or 1 to 99 rings before the call is answered.

This option sets how many times the telephone should ring before it auto-answers the call, to either converse with the occupants or to access remote programming

Note if remote programming access is required then DO NOT set this counter beyond 15

### Silence Detect (in seconds)

*Default = 20*

### 15 # (0 to 99) #

0 = disable silence detection  
or 1 to 99 seconds

If during a telephone call and a period of silence is detected as set above, the unit will automatically disconnect and return to standby. It should be noted at the exchange system returns silence when the remote party hangup.

### Continuous tone detection (in 0.1 seconds)

*Default = 20*

### 16 # (0 to 99) #

0 = disable detection  
or 1 to 99 (which = 0.1 to 9.9 seconds)

Some PABX's return a long burst of tone when the remote called party hangs up. If the tone burst is longer than this period, the unit will automatically disconnect and return to standby.

### Ring Detect delay

*Default = 02*

### 17 # (0 to 99) #

0 = to disable this option  
or 1 to 99 seconds

This unit will play the site message when it detects that the ring tone has cease. This period sets the minimum time that should elapse after dialling, prior to it monitoring the "No Answer Ring Counter".

### Pre Auto-Dial delay (in 0.1 seconds)

*Default = 20*

### 18 # (10 to 99) #

1 to 9.9 seconds

This period sets the delay from when the line is looped to the start of dialling.

### Call button on time (in seconds)

*Default = 01*

### 19 # (0 to 15) #

This timer sets the period a button is required to be held down before the calling process starts. The unit will first acknowledge that the button has been pressed by playing the 'Button Pressed message' in location 82#, thereafter the unit will beep for each second as set in this timer.

### Site ID repeat timer (in seconds)

*Default = 00*

### 20 # (0 to 99) #

0 = disable the repeat timer  
or 5 to 99 seconds

The 'Site ID message' as programmed in 40# is replayed at each interval set by this timer.

The timer starts at the end of dialling and can be stop by the remote operator by pressing the digit \*8.

### No answer ring counter

*Default = 05*

### 21 # (0 to 99) #

0 = disable call divert  
or 1 to 99 ring counts

An attempt is made to call the number as programmed for each button, if after this pre-set ring count the call is not answered, the unit will re-establish a call to the number programmed in location 09#. The divert number in location 09# should be the fallback if any of the button numbers don't succeed.

If the call is not answered by the first divert location 09#, the unit will re-establish another call to the number programmed in location 60#.

The divert number in location 60# should be the second fallback if any of the button numbers and the first divert don't succeed.

Note: Divert will happen after both the **No answer ring counter** plus **Ring Detect delay** (option 21 + 17) has elapsed.

---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Relays activated at startup

**22 # <relay (0-3), button (0-2)> #**

*Default = 00*

The DoorCom may be configured with 2 relays, each can be activated whenever the phone is in-use. If 1 or both relays are required, then use this option by setting which relay to switch on and which group of buttons will initiate it.

It should be noted that the remote operator can still reactivate the relay using the appropriate code.

The format for setting this option is **22 # which relay, which button group #**

**Relay 0** = both relays off at start up  
**1** = relay 1 switch on at start up  
**2** = relay 2 switch on at start up  
**3** = both relays on at start up

**Button group 0** = function for odd and even buttons  
**1** = only odd number buttons  
**2** = only even number buttons

Example **22 # 22 #** will activate relay 2 for even number button (2,4,6 etc) at startup, or  
**22 # 10 #** will activate relay 1 regardless of which button is pressed.

### Button call assignment

**23# (1 to 16 ) #**

*Default = 02*

This parameters sets which of the 16 possible buttons can initiate a call, this allows the DoorCom to use the remaining inputs for alarms that do not make a call. Example, if it is set to 3 then only buttons 1,2 & 3 can make a call. The remaining inputs from 4 to 8, if set, will be relayed to the remote operator with the site message. Inputs 9 to 16 do not have a message and can't be used for alarms.

### Push to talk option

**24# < mode(0-2) , master=0/slave=1 > #**

*Default = 00*

The 'Call Button' maybe used to operate the telephone in a *PART* or *FULL* push to talk (PTT) mode. When configured this mode, the initial button press will dial the number allocated for that button, then the unit will function as normal with the speaker and Mic active.

When the call button is repressed the microphone will then operate as set by the *mode* switch. By initially allowing normal conversation, a caller that may not be familiar with PTT or if background noise doesn't require PTT function, then the conversation may proceed without the need to use PTT.

The two modes of PTT are either *Part* or *Full* duplex, a telephone conversation should be conducted with different background noise conditions to determine which mode best suits.

The *mode* switch set to 1 (Part PTT), will enable the microphone and speaker to be active when the button is pressed, but only the speaker to be active when the button is released.

If the *mode* switch is set to 2 (Full PTT), then only the microphone will operate when the button is pressed and as before, the speaker will only be active on releasing the button.

If master/slave option will select the MIC to be used by this function.

**mode** 0 = PTT function disabled  
1 = Tx/Rx when button pressed  
& Rx only when button released  
2 = Tx only when button pressed  
& Rx only when button released

**Master or Slave** 0 = Master enabled, when this option is selected the PTT function will only affect the microphone on the master unit  
1 = Slave enabled, when this option is selected the PTT function will control the microphone fitted to the slave unit.

Note that the slave unit can only be connected to button 2.

*Example 24 # 11 # selects part push to talk for the slave phone using button 2*

*or*  
*Example 24 # 20 # selects full push to talk for the master phone*

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Operational control switches\_1

**25 # ( switch no., 0 or 1 ) #**

These software switches are used to enable or disable functions on the DoorCom. The unit supplied may have had one or more of these switches configured to suit the requirements requested and therefore may differ from the factory defaults as mark in the table below.

The format for setting a switch is to enter **25 #**, the **switch number**, then **0** or **1** to disabled or enabled the option respectively.

Example, if the DoorCom is configure with a keypad mounted on the front panel and it is required to dial a telephone number corresponding to the first digit pressed, then access program mode as described earlier and enter:- **25 # 21 #**.

Enter 25\* to relay all switches, **NOTE, the values are read out from switch 8 to 1.**

Switch number	off/on (0/1)	default	function
1	0 1	1	disconnect when button is repressed or send a message when button is repressed and activate relay 2 if the button is held on for 3 seconds or more. <i>Note switch 1 is bypass if the PTT option is enabled (refer to parameter 24#)</i>
2	0 1	1	keypad dials the digits as normal or the keypad dials preset numbers from location 0-9#
3	0 1	0	relay activation codes in option 29# used to open gate Use the sequence '#1' or '#2'+code to open gate
4	0 1	1	Gate can be opened after calling the phone Disable opening the gate after calling the phone
5	0 1	1	Stay on line after the gate is activated. or Disconnect call after the gate release.
6	0 1	1	Disable keyless gate release Keyless gate release enabled, use '*1 or 2' + keyless-code
7	0 1	1	one touch keypad dialling disabled One touch dialling when offline
8	0 1	0	enable relay control(gate access) during divert periods disable relay control(gate access) during divert periods

**Table 1**

### Operational switches and description

- 1) When this option is set to 0, pressing the call button will cause the unit to disconnect the call and return to standby. If set to 1, it will send the 'acknowledge' message recorded in location **84#** to the remote operator. Note that this option is bypassed if the unit is configured as a PTT telephone. (refer to **24#**)
- 2) For keypad type DoorComs, the keypad may be programmed to dial a preset number according to the first digit pressed when the line is looped, thereafter dial each key as required. To do this set this option to 1 and option **25#71#** also.  
If it is required to dial digits each digit normally like a standard tone type telephone, then set this option to 0.
- 3) To make the gate opening sequence compatible to our previous products, set this option to 1.  
in this mode the format to open the gate is '#1 or #2 plus the code'  
If this option is off, then to open the gate just enter the relay code. See option 29#
- 4) Restrict gate opening when the phone is called by setting this option to 1. (**25#41#**).
- 5) To disconnect the call after the gate has been activated, set this option to 1. (**25#51#**).
- 6) Keypad DoorComs may use the keyless entry feature when this switch is on. The unit can have 6 \* 8 digit codes as set in location **26#**. To disable this feature set this switch to 0.
- 7) DoorComs fitted with keypads can be used to do a 1 key-press dialling of a number stored in memory. When this option is enabled, keys 0 to 9 will make the call.
- 8) During the 'After Hours divert' period (option **28#**) the phone may disable opening the gate remotely. Set this option to 1 to secure the gate access. (**25#81#**)

---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Keyless entry codes

**26 # loc(1-6) Rly(1,2) code(7 digits max.) #**

The DoorCom may be used for keyless entry. It can hold 6 different codes, up to 8 digits long (including the relay to activate).

When one of these codes are entered and accepted the unit will activate the relay for the time set in option 12#. To use this function, first set option **25#61#** to enable keyless entry.

To program 1 of the 6 codes, entry **26#** a **code storage location** [1 to 6] then the **relay** [1-2] to activate followed by a 7digit **code** and # to save.

eg. To set location 3 to 1789 type 26 # 3 1789 #      *Note, the 1st digit in the code = the relay to trigger,*

& to set location 2 to 1999 type 26 # 2 1999 #.

To confirm the values enter 26+code storage location +star, IE 263\*

The user is required to type in \* +relay+code, to open the gate.

**Note, the first digit of the code = the relay to activate and must be either a 1 or 2.**

### After hours telephone number

**27 # New number #**

*Default = cleared*

This location holds the telephone number the unit will dial between the hours set in option **28# & 70#**.

Please note that, this will override all button numbers, should a call be made during the divert times.

Secondly, if the call is not answer within the **No answer ring count** option **21#**, the unit will still call the number in location **09#** and finally, the clock will only function correctly if the unit is fitted with a 3V clock battery and maintained.

### After hours divert period

**28 # start time, stop time #**

*Default = 12001200*

During the time period set here, the unit will divert all calls made by any inputs to the number programmed in location 27#. The start and stop times are set using a 24 hour format.

Please refer to the notes in the '**After hours telephone number**' parameter 27#.

eg. To program a divert period between 11:15 pm and 6:30 am

set this option as 28 # 23150630 # *(note the leading 0 for 6:30 am time)*

To disable any diverting set this parameter as 28##

*Also, refer to parameter 70# for the second divert period and option 25#8x# for gate access.*

### Relay codes

**29 # <1 or 2, code> #**

*Default 51 & 52*

Relay codes are used by the remote operator to activate the on board relays during conversation.

These codes are not used by the person using the DoorCom.

To active the relay, the remote operator, only needs to type in the code via a tone type telephone, with no more than 2 second break between digits.

Each relay has it own code and each can be 8 digit long. To program a code enter 29 #1or2 followed by the code, ie to set the code 95 for relay 1, enter 29 # 195 #

and to set a code of 37 for relay 2 enter 29 # 237 #. For these examples the remote operator would enter '95' to activate relay 1, or enter '37' to activate relay 2.

If option 25#81# is set, then these controls are disable during the divert period set in option 28#.

To check the codes enter 291\* for code 1, 292\* for code 2.

### Security Code

**30 # New Code #**

*Default 123*

This parameter holds the PIN to gain access to program the DoorCom for front panel keypad unit and for remote programming. For units fitted with a programming keypad on the lid, this PIN is not require to access programming, as using the 'B' key will give programming access without the pin.

The unit is supplied with a default PIN of **123**, and for security, should be changed and recorded, then the **site manager should be notified of the new code**.

NOTE, should you lose the code, the only possible method of resetting the code is by using the 'B' key of the keypad mounted on the lid. **Note, it can not be done remotely.**



---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Relay Latching Codes

### 31 #1 or 2 New Code #

*Default cleared*

The DoorCom relays maybe latched on, enabling gate/s to stay open until the release command is sent. Option 31#1 <code># sets the digits required to enable the latching, this code is used with the relay codes (see option 29). Example, if the latch code=21 and relay 1 code = 51, relay 2 code = 52, then a combination 2151 will latch relay 1, and 2152 will latch relay 2.

The option 31#2<code># set the release code. This release code is used to unlatch the relay

NOTE, Do not set these codes with the same digits.

To read back the codes type 311\* for latch code and 312\* for unlatch code. each are 4 digits max.

### Recording the DoorCom voice messages

The DoorCom has a number of voice messages that are played before and during a conversation, the messages notify of an event or site condition to either the end user or the remote operator.

Most of these messages are pre-recorded, but the site message is one that does require recording and also if you prefer to rephrase any of the other messages to suit the site.

### Site message

### 40 # <record message> #

This message may be up to 8 seconds long and should notify the remote operator of the address of the call. To record this message, gain programming access and type

40# wait for the beep, then start recording. The recording will end after of 8 seconds or can be terminated by pressing #. To listen to the recorded message type 40 \*. If no message is required for this site, then 81#10# will disable it or enter 40 and hold the # key to clear this location.

### Button Messages

### 41 # to 48 # <record message>

Each button can hold a 2 second message that can be use to describe which gate or lift number the call is coming from. This message is prepend to the site message 40#.

typical message would be "Gate 3 at, " or "Lift number 5 at".

After a call is made the DoorCom will aim to detect the voice from the operator receiving the call, it will then relay the above recorded messages.

So, it will start by playing the introduction message(83#) then this button message, followed by the site message (40#).

These messages are all controlled by switches whether they are played or not.

Option switch 81# control various messages, And option 49# controls which button message should be played with the site message.

### Button Message Control switch

### 49# switch number, 0 or 1 #

Each of the voice messages that are recorded in option 41# to 48# may be individually switched on or off by this option. IE, if the button 1 message (41#) is not required, then it may be switched off by using this format **49# 1 0 #**.

To check the status, enter **49\***, Played back in reverse order, switch 8 to switch 1.

Message	'switch number'	to disable it	to enable it
Button 1 message (41#)	1	49#10#	49#11#
Button 2 message (42#)	2	49#20#	49#21#
Button 3 message (43#)	3	49#30#	49#31#
Button 4 message (44#)	4	49#40#	49#41#
Button 5 message (45#)	5	49#50#	49#51#
Button 6 message (46#)	6	49#60#	49#61#
Button 7 message (47#)	7	49#70#	49#71#
Button 8 message (48#)	8	49#80#	49#81#

NB, Buttons 9 to 16 do not have a message recorded.



---

## LOCAL PROGRAMMING INSTRUCTIONS. Continue.

### Set current date and time

**50 # <date & time> #**

The current time and date may be needed for call diversion during the after hours period. If used, it is important to insure that the clock battery is installed and maintained for this function to be reliable.

The format for this parameter is '50 # Day, Month, Year, Hour, Minute, Second # '

ie. To set the current date and time to 15/Dec/17 at 3:45:20 pm

enter ' 50 # 151217154520 # '

Check the current time by using 50\*

Note: The time is 2400 hour format and the option switch 81#71# enables the daylight saving.

### Handset Volume (for models with a Handset)

Default = 10

**35 # ( 0 to 15 )**

0 = set handset o/p level to mim.

15 = set handset o/p level to max.

### Ring Volume (on in-coming calls)

Default = 5

**36 # ( 0 to 7 )**

0 = set level to mim.

7 = set level to max.

### Relay Default State (the normal state the relay is in)

Default = 00

**37 # ( rly1, rly2 )**

rly 1, 0 = normally open state.

1 = normally close state.

rly 2, 0 = normally open state.

1 = normally close state.

Note: The Option 37# will set which steady state the relay will be in when not activated.

If the relay is set to normally closed (option set to 1), then the relay will open when activated by the relay code or keyless entry code.

But if the power is removed from the unit, then the relay will return to the open state, thereby allowing the gate/ door to open should there be a power failure.

Setting the option to 00, would leave both relays normally open,

Setting the option to 11, would keep the relays contacts closed.

### Speed dial memory locations

**63-68 # new number #**

These numbers are use as preset memory re-call locations which are initiated by the 'A' key followed by key 3 to 8, So typing A3 would dial the number in location 63.

'A1' and 'A2" are used by the Telestra and Optus get service.

### After hours divert period 2

**70 # start time, stop time #**

The second divert period, used to call the number in loc 27#. Please refer to option 28#.

### Reset Parameters back to default

**95789 #**

Should you wish to return the phone settings back to the default values. This option will not change any of the phone numbers stored. (The Telstra and Optus service numbers are reset)

### Programming buttons 9 to 16 numbers

**51#-58# new number #**

For units that have more than 8 buttons fitted, The telephone number for each button is programmed into loc 51# to 58# for buttons 9-16.

If the phone is configured to do 'One touch memory dialling' (see option 25#7x page13), then loc 51# is used for digit 9 and 52# for digit 0. 1 touch memory dialling for digits 1-8 are stored in loc 01#-08#.

---

## LOCAL PROGRAMMING INSTRUCTIONS. Advance features

### Control Option switch\_2 81#

Voice messages are played when the button is pressed, at the start of the call and again when the call is answered.

These voice messages can be switched on or off, to suit the sites requirements.

When retrieving the current setting for this option,

Enter 81\* to relay all switches, **NOTE, the values are read out from switch 8 to 1.**

Switch number	off/on (0/1)	default	function
1	0 1	1	Don't play site message (option 40#) Play site message on detection of the operators voice
2	0 1	1	Don't play message when button is first pressed (option 82# & 87#) Indicate that the button has been pressed and the call is in progress.
3	0 1	1	Don't play the pre-site message (option 83#) relay the pre-site message on detection of voice
4	0 1	1	Disable msg if the button is re-pressed during the call (option 84#) play this msg to acknowledge that the button was pressed
5	0 1	1	Don't do a phone line check (option 85#) Check phone line and play "No line Detected" if it failed
6	0 1	1	Don't send alarm active messages Relay any active alarms at the end of the site message
7	0 1	1	Don't adjust the time during Daylight saving period DLS auto time adjust, +1hr from <b>October</b> till <b>March</b>
8	0 1	0	A handset is not fitted to the telephone (hands-free only) A handset is installed to this device.

Table 2

### Pre-recorded Messages

#### Button first pressed message

**82 # <record message>**

This message informs the user that they have press the call button and they should continue holding it down to proceed with the call. This message is pre-recorded to

**'HOLD BUTTON TO MAKE THE CALL'**

This message is played regardless of which active button is pressed, it will not be played if the button is not in the active list (see option 23#) or switches off by option 81#20#.

#### Call introduction message

**83 # <record message>**

When a connection to the remote party is established the unit relays the 'Site message' preceded with this message. This 2 second message is currently preset to **'THIS IS AN EMERGENCY CALL FROM'** and can be rephrased or deleted to suit the site.

#### Acknowledge message

**84 # <record message>**

This message, if activated, will be played whenever the button is re-pressed during a call.

It may help if the person in the lift is unable to speak. But is to provide feedback to the operator by pressing this button. This pre-recorded, 2 sec message is **'ACKNOWLEDGE'**.

See options 81#41# and 25#11#.

#### No Line message

**85 # <record message>**

The DoorCom will automatically sense the presence of a telephone line. If the line has been disconnected, the unit will relay this message via the speaker every 30 minutes. This should ensure that the line is maintained in the likelihood of an emergency.

The pre-recorded message is **'NO TELEPHONE LINE CONNECTED'** and can be upto 2 seconds long.

---

## Pre-recorded Messages cont

### Welcome message

**86 # <record message>**

Whenever the relay is activated using the keyless code option, this welcome message is played. This maybe disabled by deleting the message.

### Call in progress message

**87 # <record message>**

When the button has been held on for the required time and the call sequence has started, the occupant is reassured that the call is in progress by this message. This 4 second message is pre-recorded to '**EMERGENCY CALL IN PROGRESS, YOU WILL BE ATTENDED TO SHORTLY**' and is played immediately after dialling.

All messages may be replayed by typing in the location followed by a '\*', or re-recorded to suit the site. If a message is not required, then refer to Message Control Switch **81#**.

## Message Sequence & control switches

This chart shows when the messages are played and which switch controls it.

When making the call	Switch details	Parameter
start button pressed → "hold button to make the call"	81#21#, 23#	82#
after phone dials number → "call in-progress you will be attended to shortly"	81#21#	87#
call answered → "This is an emergency call from"	81#31#	83#
button number → "Lift number one"	49#x1#	41#-48#
site message → "site address message"	81#11#	40#
alarm messages → "current active inputs"	49#x1#, 23#	41#-48#
<b>During a call</b>		
operator dials *8 to replay message → "site address message"	81#11#	40#
alarm messages → "current active inputs"	49#x1#, 23#	4x#-48#
NB: alarms inputs are those from the option set in 23# till input 8		
<b>Keyless entry</b>		
user types * + one of the keyless code → "welcome"		86#

---

## REMOTE PROGRAMMING

Remote programming of the DoorCom telephone requires a standard tone type telephone.

Call the unit to be programmed, then after the preset ring count (see option 14# ) the unit will automatically answer the call and respond with a single beep. At this point enter a \* # followed by the access code and #. This code is factory set to 123, a new code should be programmed and recorded by you on initial setup. (Refer to option 30#).

**Call=> answered => Enter, \* # 1 2 3 # (123 is the factory set code)**

If the code is correct you should hear a voice response of the current version number of the firmware. If the incorrect code is entered, no response will be relayed, if so, wait 4 seconds and retry the correct code.

Note that if the code was not recorded or deleted then a new code must be entered locally at the unit to enable remote access in the future.

Remote programming parameters are the same as set out per local programming instructions.

## CHECKING DATA STORED.

To retrieve any parameter in memory enter the location followed by a ' \* '

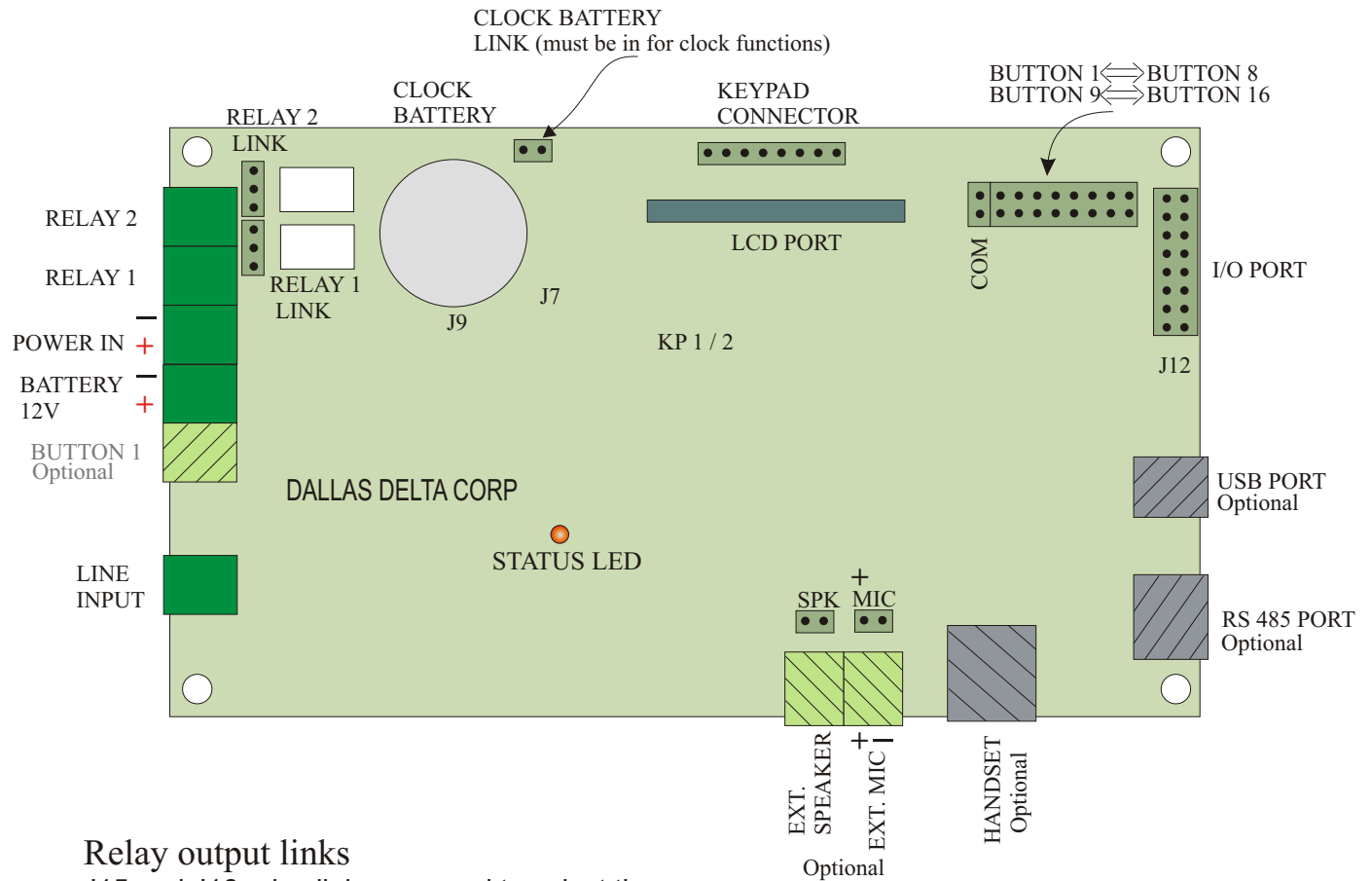
*Example to check security code type 30\* and the unit will read out each digit stored.*

Also note that :

- 1) when checking options stored in parameter 25 or 81 (switch settings) the unit will relay a 0 or 1 for each switch number starting from 8 to 1.
- 2) Keyless, Relay & latch codes (*option 26,29 & 31*) are retrieved as a 3 digit command.  
I.e. Relay code 1 is read by 261\*. relay 2 is 262\* and so on. The same applies to the keyless codes, 291\* to 296\*, Latch codes 311\* and 312\*

To **EXIT** program mode enter \* \*

The DoorCom PCB connection may be different from the diagram shown, The layout is of a generic configuration, some items may not be installed and/or not required.

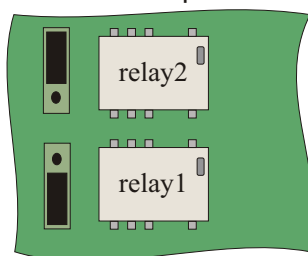


### Relay output links

J15 and J16 relay links are used to select the normal un-powered state of the output contacts.

Showing linked for normally open contacts

Showing linked for normally open contacts

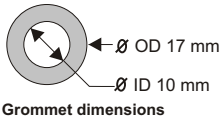


# DOORCOM LIFT ENCLOSURE

Supplied with external Speaker, Microphone and Power Supply

Note: On units fitted with external microphone and speaker, the Speaker and microphone are to be mounted no less than 100 mm apart and sealed well to the panel.

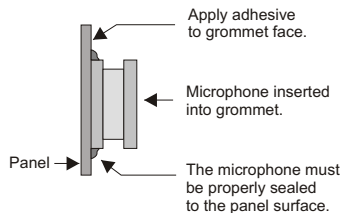
## Microphone



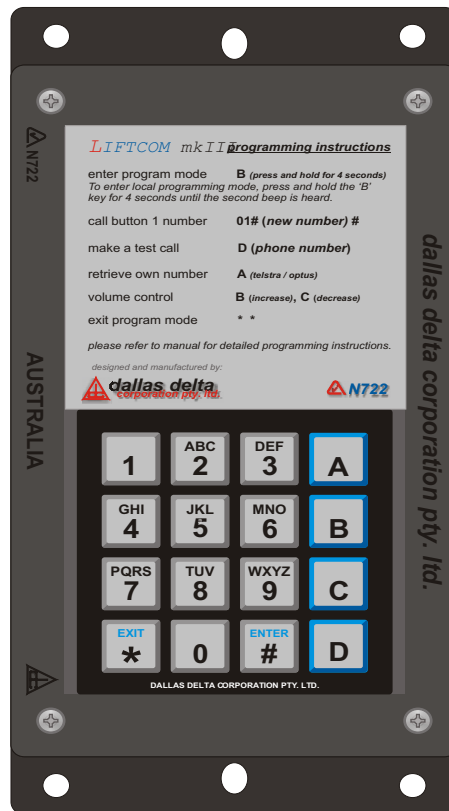
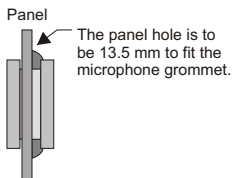
### Optional External Speaker and Mic.

The microphone may be mounted using two methods, either mount the grommet to panel by applying an adhesive to the grommet face, or mount into a 13.5mm diameter hole.

#### Method 1



#### Method 2



HANDSET  
(optional)

EXT. MIC.

EXT. SPK.

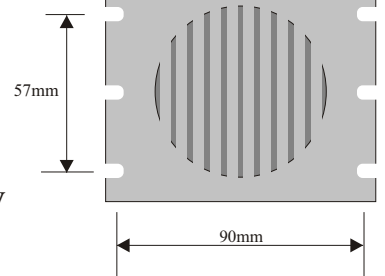
EXT. BUTTON.

Emergency  
button

Microphone (optional)

Note the polarity of the microphone connection.  
(Shield is negative)

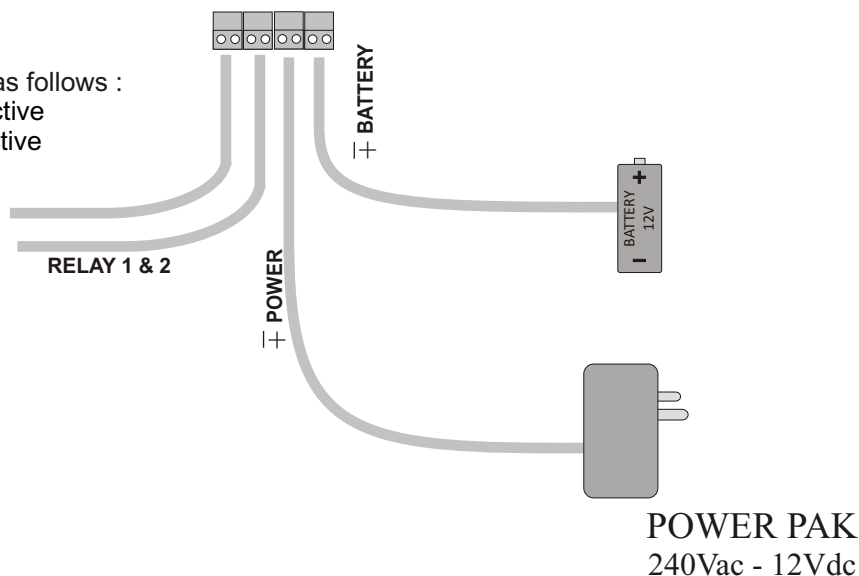
Speaker, (optional).



Speaker Box Dimensions:  
Length : 97 mm  
Width : 83 mm  
Height : 35 mm

Relay contacts are rated as follows :  
1 A @ 50 V DC Non-inductive  
1 A @ 30 V AC Non-inductive

N/O or N/C  
switch set by  
jumper LK1 / LK2



# INSTALLATION DETAILS

## WARNING

This telephone can not be used for emergency purposes during power failure unless fitted with a backup 12 volt battery!

To be installed and maintained by authorised service personnel only.

## Electrical Requirements

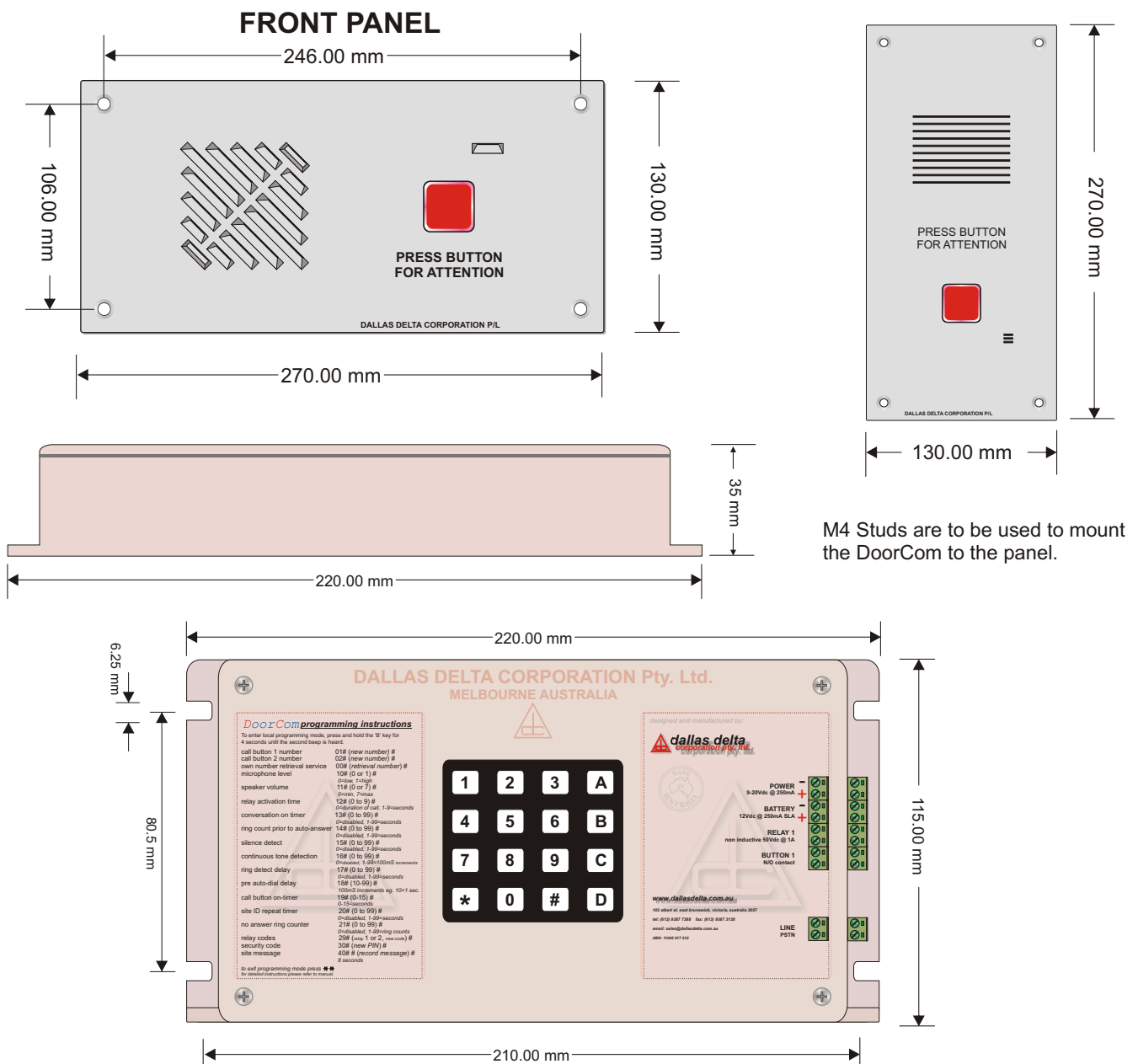
One Telecommunication Line PSTN or PABX.

Power Supply : 9-20 DC @ 250 mA  
(Minimum 17Vdc if battery backup installed to unit).

Power Consumption : Stand-By - 10mA  
(Measurements made @ 18Vdc) Operating - 40mA (170mApeak)  
(Operating current averaged during call)

Relay Ratings : 1A @ 50 Vdc Non-inductive or 1 A @ 30 V AC

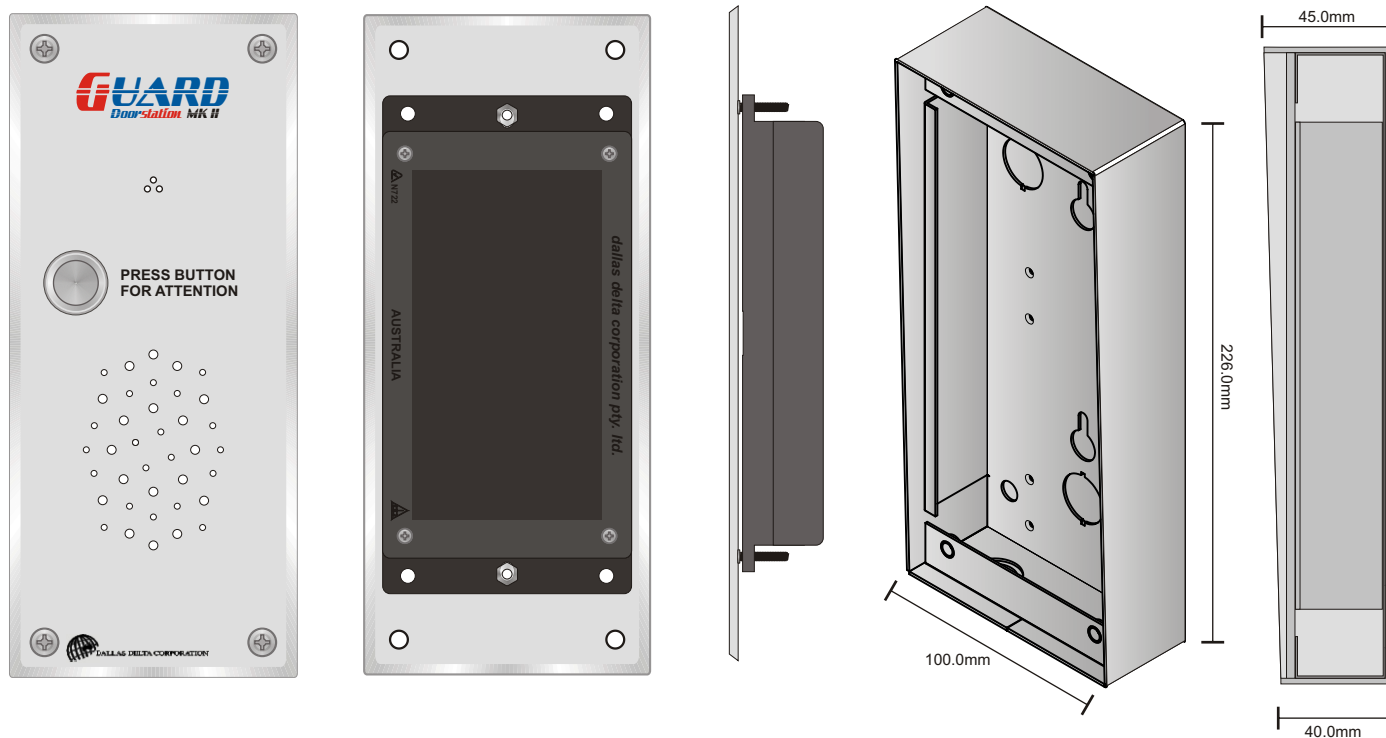
## MOUNTING DETAILS



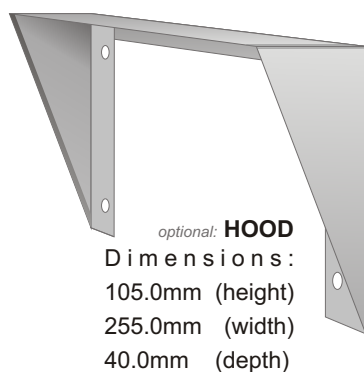
M4 Studs are to be used to mount the DoorCom to the panel.



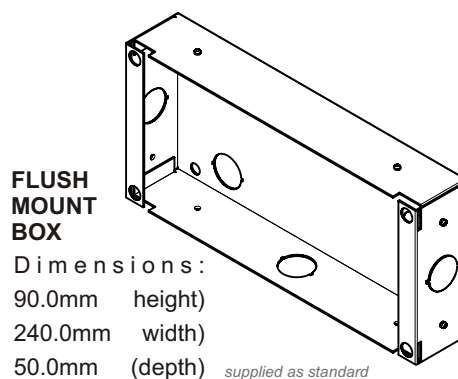
## INSTALLATION DETAILS cont... Vertical



*optional hood for Horizontal Guard MK III.*



## Horizontal





# DallasDelta

Corporation Pty. Ltd.

102 Albert Steet Brunswick East VIC Australia 3057

tel: (+613) 9387 7388 | fax: (+613) 9387 3128

sales@dallasdelta.com | www.dallasdelta.com

**Manufacturing Communication Products  
using technologies of:  
Analogue | VoIP | GSM | Fibre**

**Emergency Lift Telephones  
Emergency Telephone Systems  
Emergency Services Telephones  
Industrial Telephones  
Hygienic Environment Telephones  
Motorway Telephones  
Apartment Intercom Systems**

**Prisoner Telephones  
Security Door Telephones  
VoIP Telephones  
High Voltage Line Isolators  
Loud-Speaking Telephones  
GSM Wireless Intercoms  
Rugged Environment Telephones**

