# TELEPHONE TECHNICAL SERVICES

# DS2

## USER GUIDE




Manufactured in Australia for
Telephone Technical Services
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# DESCRIPTION

This User Guide describes the installation and operating instructions of our DS2 model DOOR STATION Controller, which is designed to connect to a Specially designed Door Phone (see page 5), when used on an ordinary **PSTN** residential telephone line.

It can also be fitted to a **PSTN TRUNK** (used or unused) of any Multi-Line PABX type telephone system. See pages 16-17 for further details.

**DS2** is fitted with a **LOCK CONTROL** facility.

An Internal Lock Control Relay is provided to allow you to unlock your gate or door with any attached telephone. The DS2 Relay is a Dry Contact Relay, rated at 12V/1A. See pages 14-15.

Your **DS2** DOOR STATION Line Sharer is completely TRANSPARENT in operation, so it will not affect the normal operation of your telephone line in any way.

ONE or TWO Door Phones can be connected to the **DS2** unit. They must be connected in parallel with each other. Either Door Phone can trigger a Door Phone call.

If you use TWO Door Phones connected in parallel, then Audio will be present at both Door Phones at the same time.

If you wish to operate 2 completely separate Door Phone zones, when using 2 Door Phones, you can do so by fitting an additional DS1 Controller on the same telephone line. Each Door Phone will then have separate audio communication.

If you require a different ring from each Door Phone, then use one DS6 instead of DS2, as DS6 has the ability to select from 4 different ring outputs.

Once correctly installed, **DS2** will RING your telephones that are connected to it as soon as it is activated by a visitor pressing the Call Button of the attached Door Phone.

# DESCRIPTION Cont.

If you are using an ordinary single telephone line, you will notice that your telephones WILL RING DIFFERENTLY, to alert you that the call is from your Door Phone.

If you are using a Cordless Phone or a PABX telephone line, your telephones MAY NOT RING DIFFERENTLY, as these devices can ignore our ring and output there own ring.

For this reason, your unit can be set to output FIVE quick 'beep' tones (advice tones) immediately after answer, to advise you that the incoming call is from your Door Phone (refer to page 18 for further detail).

DS2 can be used with MOST CORDLESS PHONE MODELS. However, a small number of CORDLESS PHONE MODELS may ignore the ring from DS2 and will NOT RING when there is a Door Phone call.

If you have a CORDLESS PHONE that will not ring, it will be necessary to also use one or more CORDED TELEPHONES on your line (or a Ringing Bell Accessory that is available from most retail outlets that sell telephones).

CORDED TELEPHONES will ALWAYS RING, and will alert users of CORDLESS PHONES that do not ring that there is an incoming Door Phone call. You can still ANSWER, COMMUNICATE and CONTROL LOCKS with CORDLESS PHONES that do not ring.

**Alternative Models are available which provide the following features:**

DS1 - PSTN connection, no lock control.
DS2 - PSTN connection, single lock control.
DS3 - PSTN connection, dual lock control.
DS4 - PABX EXTENSION connection, no lock control.
DS5 - PABX EXTENSION connection, single lock control.
DS6 - PSTN or PABX connection, dual lock control, with dial out.
DS7 - As per DS2 - works with telephone instead of Door Phone.
DS8 - As per DS5 - works with telephone instead of Door Phone.
DS9 - As per DS6 - works with telephone instead of Door Phone

# DOOR PHONES

A choice of Five Door Phones are provided for use with your **DS2** device and should be ordered separately :

### Model DP1 - SURFACE MOUNT

Moulded plastic unit, designed for easy mounting direct onto your wall surface. Vertical orientation only.
(100mm Wide, 133mm High, 32mm Depth).



### Model DP2 - FLUSH MOUNT Compact Size

Marine Grade Stainless Steel face plate.
Touch Switch operation. Night illumination.
Available in Vertical or Horizontal orientation.
Optional Surface Mounting Kit is available.
(107mm Wide, 204mm High, 30mm Depth).



### Model DP3 - FLUSH MOUNT Standard Size

Marine Grade Stainless Steel face plate.
Touch Switch operation. Night illumination.
Available in Vertical or Horizontal orientation.
Has a 12 mm hole and threaded mounting studs to allow for a Digital Camera to be fitted.
Optional Surface Mounting Kit is available.
(130mm Wide, 264mm High, 30mm Depth).



### Model DP4 - FLUSH MOUNT Standard Size

Fitted with a high resolution, low light Digital Colour Camera.
Marine Grade Stainless Steel face plate.
Touch Switch operation. Night illumination.
Available in Vertical or Horizontal orientation.
Optional Surface Mounting Kit is available.
(130mm Wide, 264mm High, 37mm Depth).



### Model DP5 - FLUSH MOUNT Standard Size

Fitted with an intelligent Pedestrian Access Keypad.
Touch switch operation with 99 User Codes
Marine Grade Stainless Steel face plate.
Blue and White LED Night illumination.
Available in Vertical orientation only.
Optional Surface Mounting Kit is available.
(130mm Wide, 264mm High, 30mm Depth).

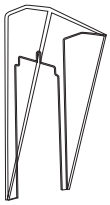


**Separate User Guides are provided with each DOOR PHONE.**

# DOOR PHONE COVERS

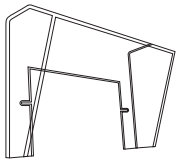
If your Door Phone is not under cover, a Strong Transparent DOOR PHONE COVER is highly recommended to prevent water from gradually permeating through to the electronics of the Door Phone. RRP is $39.00 incl GST.

**Model DPC-1 : for Door Phone Model DP1**





Model DPC2-V for DP2 mounted vertically
Model DPC3-V for DP3, DP4, DP5 units mounted vertically



DPC2-H for DP2 mounted horizontally
DPC3-H for DP3, DP4 mounted horizontally

You can alternatively use one of our Surface Mounting Kits which provides a Rain deflector. See below.

# SURFACE MOUNTING KITS

Stainless Steel Surface Mounting Kits are available for all Model DP2 to DP5 Door Phones, so that your Door Phone can be mounted ONTO a wall surface, rather than into it. 4 separate surface mounting kits are available, to cater for the different sized DP2-DP5 Door Phones that can be mounted vertically or horizontally :



Model SMK2-V for DP2 units mounted vertically
Model SMK2-H for DP2 units mounted horizontally

Model SMK3-V for DP3, DP4, DP5 mounted vertically



Model SMK3-H for DP3, DP4 mounted horizontally

# OPERATION SUMMARY

When a visitor at your door or gate presses the call button on your supplied Door Phone, **DS2** will ring all of the telephones connected to your line up to 10 times (the number of rings can be changed).

You can answer the Door Phone call by simply picking up any telephone connected to your line. You will then be able to converse with your visitor.

If you have an ELECTRIC LOCK fitted, you can release it (open it) by pressing ** on your telephone.

If you are already on a telephone call and the Door Phone is activated by a visitor, you will be alerted with a tone.

You can place your existing call 'ON HOLD' and switch to the DOOR PHONE at your door or gate by pressing ## on your telephone.

You can return to the telephone call by pressing ## on your telephone.

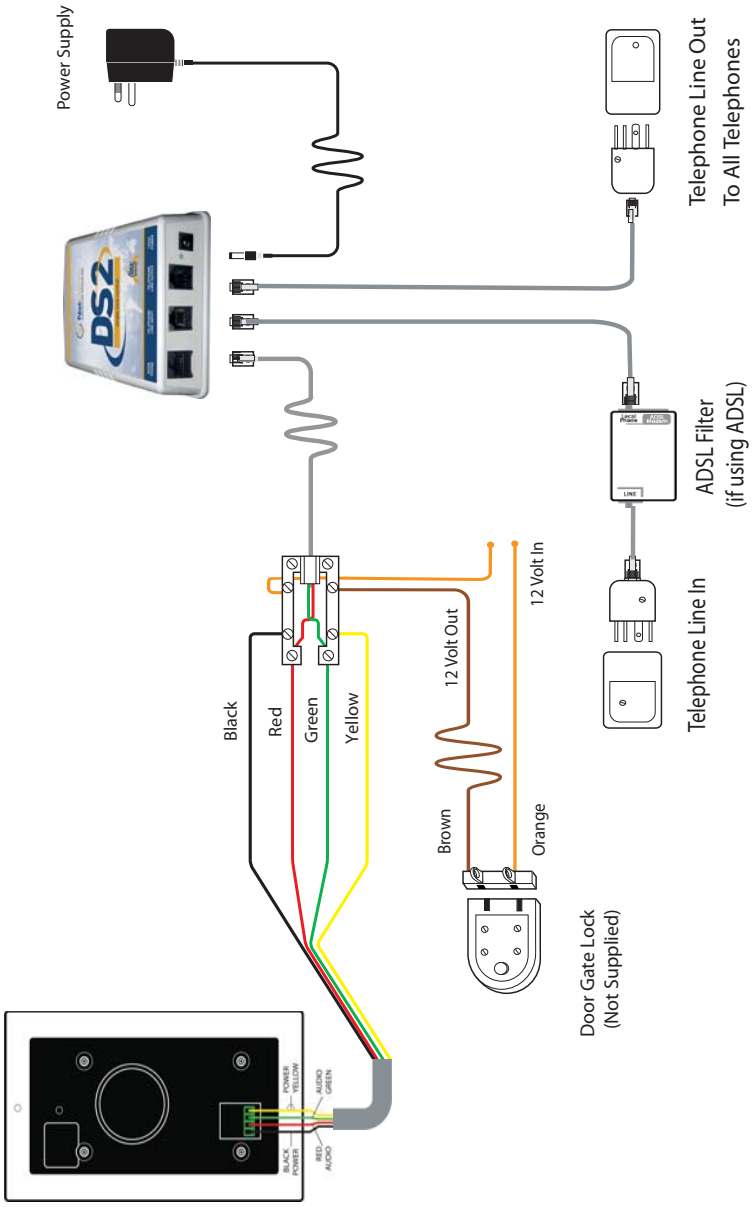
If there is an incoming telephone call while you are on a DOOR PHONE call, you will be alerted with a tone.

You can place your existing call 'ON HOLD' and switch to the telephone call by pressing ## on your telephone.

To resume your original call, all you need do is press ## on your telephone again.

| | |
|---|---|
| ****** | **Opens DOOR LOCK** |
| **##** | **Switch between lines (Telephone and Door Phone)** |

# MODEL DS2 INSTALLATION



# INSTALLATION

An ACMA approved installation technician will fit your **DS2** direct onto your incoming telephone line, immediately ahead of your first telephone socket, so that your telephone line connects to all of your telephone sockets through it.

**DS2** has been designed so that it will not interfere with the normal use of your telephone line in any way. In the event of a malfunction or power cut, your telephone line will continue to operate.

The contact details of suitable installation technicians in your area are available from Telephone Technical Services.

**NOTE - For operation of DS2 on a telephone line fitted with the ADSL service, please refer to page 12.**

The following instructions describe a typical installation procedure for fitting **DS2** to an ordinary telephone line. Alternative methods which provide for INCOMING TELEPHONE LINE connection to the LINE IN port of **DS2**, connection of all extension telephones to the LINE OUT port of **DS2** and connection of the DOOR PHONE to the DOOR PHONE port of **DS2**, may be used by a suitably qualified installation technician.

# INSTALLATION INSTRUCTIONS

1) **Your DS2 unit must be fitted inside the home or office. It must not be fitted outside, next to the Door Phone.**
   Fit a NEW 611 TYPE telephone socket next to the ORIGINAL first telephone socket. It is best to use a TYPE 611 socket instead of the normal TYPE 610, as this socket contains switching contacts that will automatically reconnect the ORIGINAL telephone socket to the incoming telephone line, should the cable to the **DS2** Controller ever be disconnected. (A double telephone socket which contains switching contacts can also be used in lieu of separate sockets). This NEW 611 socket should be labelled **DS2** ONLY. No other devices should be connected to this socket. If a normal telephone is to be used at this location, it should be connected to the ORIGINAL first telephone socket, along with the LINE OUT port of **DS2**, using a normal Double Telephone adaptor.

**2)** Transfer the incoming telephone line (normally a BLACK CABLE) from the ORIGINAL first telephone socket to the corresponding positions 2 & 6 on the NEW telephone socket. Leave all other telephone cables connected to the ORIGINAL socket, as these are the connections to your EXTENSION telephones.

**3)** Now connect pins 1 & 5 of the NEW TYPE 611 socket to pins 2 & 6 of the ORIGINAL telephone socket. By doing so, the incoming telephone line will be automatically reconnected to the ORIGINAL telephone should the cable to **DS2** ever be disconnected.

**4)** Connect the LINE INPUT port of **DS2** to the NEW TYPE 611 telephone socket, using the supplied telephone cable fitted with a male plug.

**5)** Connect the LINE OUTPUT port of **DS2** to the ORIGINAL telephone socket, using the supplied telephone cable fitted with a male plug.

**6)** Connect the supplied 12V power adaptor to **DS2**, and switch the POWER ON.

**7)** Connect the SUPPLIED DOOR PHONE to the DOOR PHONE PORT of **DS2**. See page 11 for important details.

For convenience, an interface unit with screw terminals is supplied and should be connected to the DOOR PHONE PORT using the supplied RJ to RJ cable.

Run a solid core telephone cable (preferably CAT5) between the interface unit and the Door Phone.

Our DP1 Door Phone requires only 2 wires.
Our DP2-DP5 Door Phones require 4 wires.
LOCK CONTROL (if fitted) will require 2 wires.

**Please refer to your Door Phone User Guide**

**8)** Fitting your Door Phone to your Wall or Pole surface (see page 11).

**9)** Test your Door Phone to Telephone communication. If the Audio quality is not clear in both directions, you may need to adjust the Door Phone Balance Pot, as detailed on page 13.

# CONNECTING THE DOOR PHONE

## DP1 DOOR PHONE

Connect the two wires that are connected to the CENTRE 2 PINS of the 8 pin RJ45 socket of **DS2**, to the screw terminals located on the back of the DOOR PHONE. Polarity is not important.

If you plan to use the interface unit, then the terminals for the GREEN and RED wires should be connected to the screw terminals located on the back of the DOOR PHONE. Polarity is not important.

The LED on the DOOR PHONE should turn ON (**DS2** must be ON).

The DOOR PHONE should be mounted onto your wall surface. With DP1 this is done by separating the Door Phone unit from the integral backing plate, secured by a screw underneath the grey plastic label, above the speaker. The backing plate should then be screwed to the wall surface, before re-attaching the Door Phone with the securing screw.

## DP2-DP5 DOOR PHONES

Audio Connection - Connect Pins 4 & 5 (the centre 2 pins) of the 8 pin RJ45 socket of **DS2** to the centre 2 inputs of the supplied 4 position Phoenix Plug. Polarity is not important.

If you plan to use the interface unit, then the terminals for the GREEN and RED wires should be connected to the centre 2 positions of the 4 position Phoenix Plug. Polarity is not important.

Power Connection - Connect Pins 3 & 6 (the 2 pins either side of the centre 2 pins) of the 8 pin RJ45 socket of **DS2**, to the outside positions of the 4 position Phoenix Plug. Polarity is not important.

If you plan to use the interface unit, then the terminals for the YELLOW and BLACK wires should be connected to the outside positions of the 4 position Phoenix Plug. Polarity is not important.

The LED on the DOOR PHONE should now turn ON (**DS2** must be ON).

Your DP2-DP5 unit should be screwed direct to the wall with the 2 supplied mounting screws, or to the optional Surface Mounting Kit.

# USERS WITH ADSL

**DS2** can be used with ADSL on the same telephone line.

However it is ESSENTIAL to fit a SINGLE High Quality ADSL filter immediately ahead of the **DS2** Controller. Failure to do so, or use of additional ADSL filters connected direct to your telephones, WILL cause problems in the operation of your **DS2** Controller and ADSL service.

Please Note - Basic ADSL FILTERS, designed for separate connection to each telephone on your line (as usually supplied with ADSL modems) are not suitable.

We recommend the use of the C10 Brand ADSL Filters, which are available from your Dealer or from National Communications or on line at : www.natcomm.com.au

Model C10-1 (P/N C10245M), is suitable for sites with 3 or less telephone devices connected to the line

Model C10-2 (P/N C10100E), is suitable for sites with 4 or more telephone devices connected to the line .

# USERS WITH DIAL OUT ALARMS

**DS2** can be used with a DIAL OUT SECURITY ALARM on the same telephone line.

However to avoid conflict, it is ESSENTIAL to fit the DIAL OUT SECURITY ALARM on the telephone line AHEAD of the **DS2** unit, using a MODE 3 switch.

If ADSL is also to be used on this same line, then it is ESSENTIAL to fit a single High Quality ADSL filter immediately ahead of the MODE 3 Switch, being the first point on the telephone line.

This means that the Security Alarm, **DS2** Line Sharer and all telephones connected on the telephone line have adequate filtering from the high frequency ADSL communication.

# BALANCE POT ADJUSTMENT

Your DOOR PHONE is preset at the factory for maximum performance. Our sophisticated circuitry is designed to measure the background noise present at your site and then apply maximum gain.

In most cases you SHOULD NOT NEED TO MAKE ANY ADJUSTMENTS.

If you are using Two Door Phones connected in parallel, or there is some ambient background noise, you may need to adjust the POT of one or both Door Phones to suit your specific site conditions.

The balance POT is provided in case you experience one of the following

- Audio is distorted.
- Audio (speech) can only be heard in 1 direction.

Should you encounter one of these problems, you will need to make slow careful adjustments in one direction or the other until speech can be heard in both directions and without distortion.

The balance POT is accessed via a small hole on the back of the DOOR PHONE. You will need to use a small flat blade screwdriver to adjust it.

On Models DP 2-5, the balance POT is located under a small plastic sealing plug, which will need to be temporarily removed.

## IMPORTANT NOTES :

**1) You will require TWO PEOPLE to adjust your Door Phone.**

**2) Wait for 10 seconds after answering before adjusting POT.**

**3) Do not use a telephone IN CLOSE PROXIMITY TO THE DOOR PHONE, as feedback interference will affect the Balance Pot settings. Move at least 3m from the Door Phone.**

**4) <u>The Balance POT does not increase volume.</u>**

**Moving it when unnecessary may cause a deterioration in audio quality or a loss of audio in 1 direction.**

# LOCK CONTROL

Your **DS2** is provided with an internally fitted relay which can be used to control an Electric Strike for a Door or Gate.

The DS2 Relay is a Dry Contact Relay, rated at 12V/1A.

To OPEN the Door/Gate Lock after answering a call from your DOOR PHONE you need to press ****** on your telephone. The lock will remain open for 10 seconds (can be 01-99 secs) after you HANG UP your telephone.

Your Door/Gate Lock can also be OPENED at any time by picking up any telephone and dialling ****** . The Door/Gate Lock will remain UNLOCKED for 10 seconds (can be 01-99 secs).

You do not need to receive a call from the Door Phone first.

**Relay Specification - Dry Relay Contacts rated at 12V/1Amp.**

**Do not use the supplied DS2 Controller 12V plug pack to also provide 12V power for the lock, as this may cause damage to DS2. You must use a separate 12V source, with a maximum rating of 12V/1A.**

Refer to page 15 for Installation details.

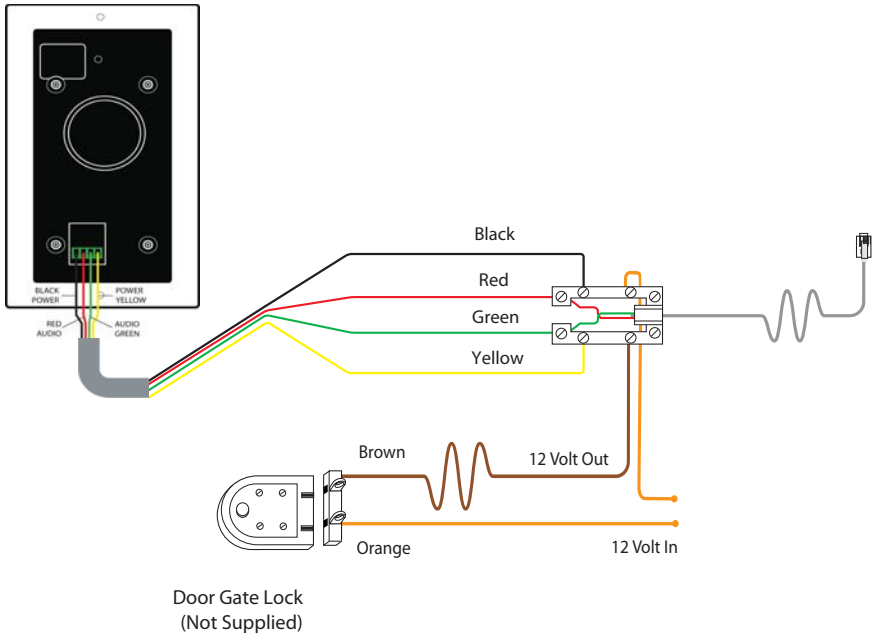
Refer to page 22 for Lock Troubleshhoting details.

# LOCK INSTALLATION

The contacts of the Internal relay of **DS2** are accessed by the supplied connection box.

The polarity of the Relay connection wires is not important.

Lock 1 should connect to Brown and Orange terminals.




**NOTE- Do not use the supplied DS2 Controller 12V plug pack to also provide 12V power for the lock, as this may cause damage to DS2.**

**You must use a separate 12V source, with a maximum rating of 12V/1A.**

**If problems are experienced, please refer to page 23 for troubleshooting tips.**

# MULTI-LINE TELEPHONE SYSTEM USE

**Our DS2 Line Sharer can be fitted in one of 2 ways :**

## 1) ON A SPECIFIC LINE

See Diagram 1 on page 17

### Connecting to the LAST LINE of a PABX system

**DS2** can be fitted to ONE SPECIFIC INCOMING LINE of a Multi Line PABX type system.

In this situation, the incoming telephone line, prior to the system controller should be connected to the LINE IN port of the **DS2** Controller and the LINE OUT port of the **DS2** Controller should then be connected to the system controller.

Once fitted, the system will operate exactly as described previously, for operation on the selected line.

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## 2) ON AN UNUSED TRUNK LINE

See Diagram 2 on page 17

### Connecting to an UNUSED Trunk of a PABX system

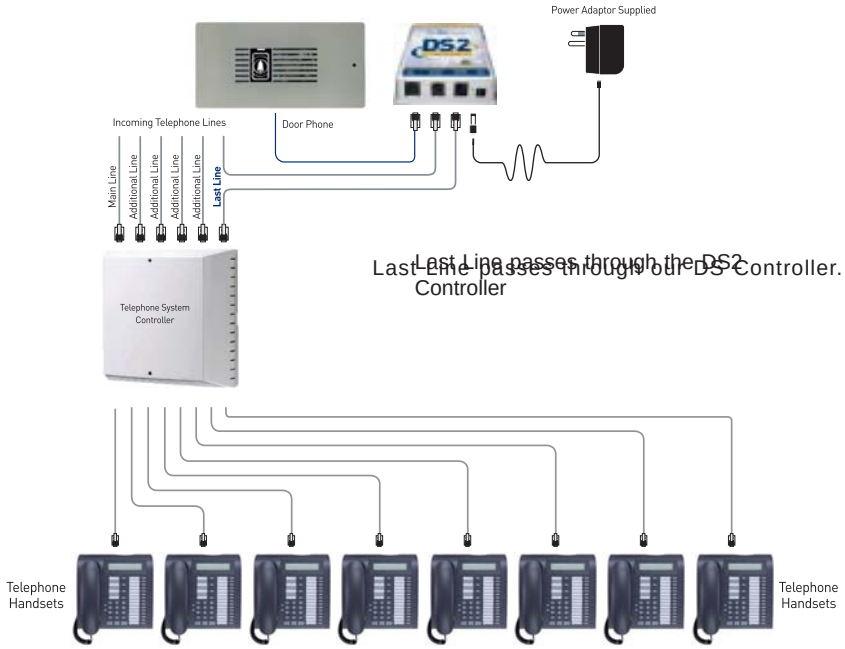
**DS2** can also be fitted to an **UNUSED TRUNK PORT or UNUSED LINE PORT** of ANY Multi Line Telephone System.

This means that this particular line WILL ONLY RING when the Door Phone has been activated.

In this situation, the LINE OUT port is the only connection to the system controller.

Note - Alternative Models DS4, DS5 and DS6 can all operate on an Analogue PABX extension and generate a ‘hook flash’ to allow for ‘hot dial’ operation.

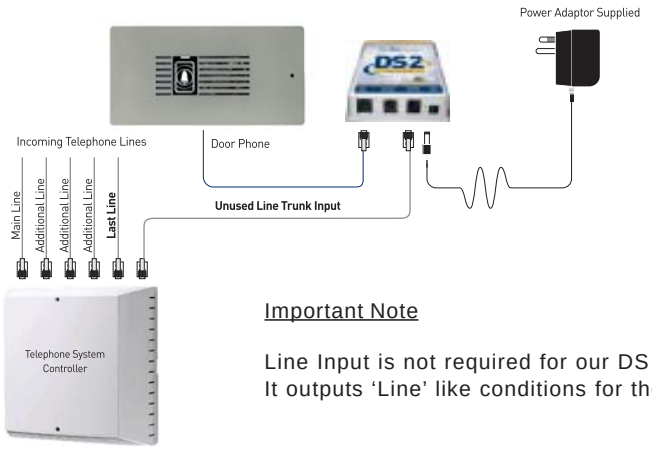
## Diagram 1 - Connecting to the LAST LINE of a PABX system




Last Line passes through the DS2 Controller.

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## Diagram 2 - Connecting to an UNUSED Trunk of a PABX system




Important Note

Line Input is not required for our DS Controller.
It outputs 'Line' like conditions for the PABX.

# PROGRAMMING OPTIONS

**DS2** has internal flash memory which will retain your settings even if power is disconnected. A number of features are provided to allow you to customize the capability of this device to meet individual requirements

**NUMBER OF RINGS**

You can set a limit for the number of rings that **DS2** will generate when a visitor presses the Call Button on your Door Phone.

You may wish to do so to prevent a Door Phone call being answered by your answering machine.

| | | |
|---|---|---|
| Allowable Range | : | 01 to 99 rings |
| Default Setting is | : | 10 rings |

**DOOR PHONE CALL ADVICE TONES**

5 shorts 'beeps' can be injected into the Door Phone call, immediately after answer, to advise you that the incoming call has originated from your Door Station.

This facility is very useful for those users who may use cordless phones that will not ring differently when there is a Door Phone call.

| | | |
|---|---|---|
| Allowable Range | : | ON or OFF |
| Default Setting is | : | OFF |

**LOCK TIME OUT**

The lock control facility should be used to open a gate or lock. You can set the time which the LOCK will remain open after the user presses the ** command, between 01-99 seconds.

01 to 99 is the time interval that the LOCK REMAINS OPEN after pressing **

| | | |
|---|---|---|
| Allowable Range | : | 01 to 99 |
| Default Setting is | : | 10 |

# PROGRAMMING NOTES

The following notes provide important information about the programming procedure :

**1)** To enter PROGRAMMING MODE you must turn OFF POWER to your unit and then switch POWER ON AGAIN.

**2)** Using ANY TELEPHONE connected to **DS2,** PRESS # within 30 SECONDS. Note : DS2 must be connected to a telephone line.

**3)** You will hear 3 short 'beeps' to confirm you are in programming mode.

**4)** Individual Parameter Programming Entries are also carried out by pressing further keys on the attached telephone

**5)** Your unit will generate 1 short 'beep' to confirm acceptance of command.

**6)** Your unit will generate 1 long 'beep' to advise of an entry error.

## IMPORTANT NOTE

After each power up **DS2** will prepare to enter programming mode for 30 seconds. During this time, dial tone is not available.

You can cancel out of this mode (before the 30 second limit) and achieve dial tone by Hook Flashing, Hanging Up OR pressing any DTMF Touch Tone digit other than #.

# PROGRAMMING PROCEDURE

**1. TURN OFF POWER TO YOUR UNIT**

**2. SWITCH ON POWER AND PRESS # (WITHIN 30 SECONDS)**
You must use a telephone connected to **DS2**.

**3. YOUR UNIT WILL OUTPUT 3 SHORT 'BEEPS'**
Do not proceed until you have heard 3 short beeps.
If you do not hear 3 beeps, return to the start (1).

**4. ENTER ANY REQUIRED COMMANDS AS FOLLOWS:**
(Note - You can change one or more parameters in any order)

**A. NUMBER OF RINGS**

To enter the NUMBER OF RINGS press #1xx

where xx = number of rings and can be 01-99
(for example, press #115 for 15 rings)

**B. DOOR PHONE CALL ADVICE TONES**

To disable TONES press #40

To enable TONES press #41

**C. LOCK SET UP**

To enter the LOCK 1 OPEN TIME press #6xx

xx = time limit in seconds that LOCK 1 will remain open after pressing **. It can be set from 01-99 (seconds)
(for example, press #630 for 30 seconds)

**TO EXIT PROGRAMMING MODE - HANG UP.**

# TROUBLESHOOTING LOCK CONTROL

The DS2 Relay is a Dry Contact Relay, rated at 12V/1A.

**If you are having trouble controlling the LOCK or GATE STRIKE, please trouble shoot by using the following procedure :**

1. Test that you receive the correct voltage across the terminals of the supplied connection box, when ** is pressed on the attached telephone.
**Your Lock power should connect to Brown and Orange terminals.**

2. If the correct voltages are not present investigate all wiring to and from your lock and power source.

3. If the correct voltage is present, short across the two terminals and your electric lock should operate.

If your lock still does not operate, there will be a problem with wiring between your power supply, electric lock and connection box.

If your lock operates, then the problem is located in the wires of the connection box, the RJ to RJ lead connecting to the **DS2** unit or the relay within the **DS2** unit itself. If possible, please bypass the connection box and the RJ to RJ lead connecting to the **DS2** unit by feeding the two power supply wires of the electric lock into an RJ45 plug in positions 2 & 7.

If the lock then works with ** , then the problem is in the connection box or the RJ to RJ lead connecting to the **DS2** unit.

If the lock still does not work with **, then the problem may be within the **DS2** unit, or interference is preventing DS2 from detecting the ** command.

4. ADSL Interference or Electromagnetic Interference (EMI) caused by Switch Mode Power Supplies or Uninterruptable Power Supplies can prevent the ** touch tones from being detected by **DS2.**

5. Follow the instructions in section 3 on page 22.

6. If your problem is still unresolved, please call Telephone Technical Services to report the above results and arrange for further advise or repair.

**IMPORTANT NOTE - You must not use the Power Adaptor supplied with DS2 to power either Door Lock or Strike.**

# TROUBLESHOOTING AUDIO

**If you are having trouble with AUDIO COMMUNICATION between the DOOR PHONE and ANY TELEPHONES on your line, please follow the procedure below.**

Most problems are caused by site specific conditions. Through a process of elimination, the source of problems can be determined and then rectified.

1. If you use ADSL on your telephone line, ensure that you have a High Quality ADSL2+ filter fitted to your telephone line ahead of the DS2 Controller.

If you have recently updated your ADSL service, your old filter is unlikely to be compatible with your new service, as ADSL2+ requires different filtering to the ADSL2 service or the original ADSL1 service. To ensure that you have correct filtering, we recommend the use of the C10 brand filters, as described on page 12.

2. Your BALANCE POT, located on the back of the Door Phone may need adjusting as described on page 13.

3. If you are still having audio quality problems, they can be caused by EMI (Electro Magnetic Interference) from some Switch Mode Power Supplies and some low end UPS units (Uninterruptable Power Supplies).

Switch Mode Power Supplies can be easily identified because they are very light, due to the fact that they do not use a transformer. Many brands of the these power supplies are well known to generate high levels of EMI.

**Please TURN OFF any SWITCH MODE POWER SUPPLIES located near the DS2 controller (and its power supply) and test if the problem is resolved.**

**If the DS2 Power Supply is connected to an Uninterruptable Power Supply, remove it and test if the problem is resolved.**

4. If you are still having audio quality problems, then you may be picking up interference (50hz power or other interference) from the telephone line input, or the cable leading to your Door Phone.

To test for this, you need to temporarily isolate our equipment from the existing devices/cable, using the following procedure :

# TROUBLESHOOTING AUDIO
## Continued.

5. Disconnect the telephone cable from the LINE OUT port of your unit and connect a single corded telephone into this port. Now test communication with this single phone.

If satisfactory operation can be achieved, you should fault find your problem with the wiring or telephones downstream of our unit by connecting them to our unit 1 device at a time.

6. If satisfactory operation cannot be achieved, you should disconnect the telephone cable from the DOOR PHONE port of your **DS2** unit and temporarily run NEW CAT5 cable from the **DS2** to your DOOR PHONE.

Alternatively, you can remove the Door Phone from its normal position and move it closer to the DS2 unit so that you can connect it using a temporary new CAT5 cable. Please ensure this temporary test cable is no less than 3 meters away from your DS2 unit in order to prevent Audio Feedback.

If satisfactory operation can be achieved, you should fault find your problem in the wiring leading to the DOOR PHONE unit.

7. If satisfactory operation cannot be achieved, you should disconnect the telephone line input to the LINE IN port of your **DS2** unit. (Note : with the telephone line disconnected, audio communication can be achieved, but DTMF operation will not work).

If satisfactory operation can be achieved, you should fault find your problem caused by the incoming telephone line. If you are using ADSL, ensure that you are using a high quality filter such as the C10 Brand, models C10245E or C10100E. These devices are available from your Dealer or National Communications. See page 12 for more detail.

8. If your problem is still unresolved, please call Telephone Technical Services to report the above results and arrange for further advise or repair.

# SPECIFICATIONS

| | | |
|---|---|---|
| Dimensions (all in mm) | : | 106 (W) x 106 (D) x 43 (H) |
| Weight | : | 225g |
| Power Supply | : | 12VAC/500mA |
| Power Consumption | : | Idle - 0.5 Watts |
| Power Consumption | : | Call - 0.75 Watts |
| Telephone Line In Connector | : | RJ 11 6 pin (2 centre) |
| Telephone Line Out Connector | : | RJ 11 6 pin (2 centre) |
| Door Phone Connector (Audio) | : | RJ 45 8 pin (2 centre) |
| Door Phone Connector (Lock) | : | RJ 45 8 pin (pins 2 & 7) |
| Power Connector | : | 2.5mm barrel connector |
| ACMA COMPLIANT | : | Supplier Number N 782 |

# WARRANTY

This device is guaranteed against defects from workmanship for a period of two years (24 months) from the date of purchase. In the event of failure, you should return the product, along with proof of purchase date, and a written statement about the nature of the problem.

This Warranty shall not apply to any unit which has been subject to alteration, modification, abuse, negligence, accident, external voltage/ lightning surge or used in any manner contrary to these instructions.

The obligation is solely to repair or replace the product. The warrantor is not liable for any incidental or consequential damages due to such defects.

The user is responsible for freight costs to the repair point. The warrantor will be responsible for freight costs in returning this unit back to the user.

Damage caused to this device or attached equipment, by lightning strikes or over voltage surge is not covered under this warranty.

**CASE SEALED AT FACTORY**
**OPENING THE CASE VOIDS THE WARRANTY**