



**Natcomm**  
AUSTRALIAN INNOVATION



# DS5 Plus



## USER GUIDE

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# DESCRIPTION



**DS5 Plus** is a Door Station Controller designed to operate with Any NATCOMM Door Phone Intercom (see page 3).

**DS5 Plus** is designed to connect to an Analogue Extension. The Extension should be set to 'Hot Dial' (called 'Hot Line') your desired PBX Extension or Extension Group whenever it is triggered by an attached NATCOMM Door Phone.

**DS5 Plus** is supplied as a complete kit, ready for quick and easy installation by a technician or an end user with some IT experience.

A connection box and a short CAT5 cable is supplied to connect **DS5 Plus** to the Door Phone Intercom and its Internal Relays to 1 or 2 Door LOCKS OR Gates.

# DOOR PHONE RANGE

A choice of Four Door Phones is provided for use with our range of Door Station Controller units:

## Model DP1 - SURFACE MOUNT

- Molded plastic unit, designed for easy surface mounting direct onto your wall surface.
- Blue LED Night illumination. (100mm Wide, 133mm High, 32mm Depth).



## Model DP2 - FLUSH MOUNT Compact Size

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



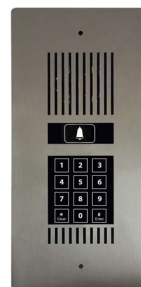
## Model DP3 - FLUSH MOUNT Standard Size

- Marine Grade Stainless Steel face plate.
- Fitted with a Sealed Perspex Camera Hole and rear Mounting Studs to allow you to fit your own Camera.
- Touch Switch operation. Vertical or Horizontal orientation.
- Blue LED Night illumination.
- Optional Surface Mounting Kit is available. (130mm Wide, 264mm High, 37mm Depth).



## Model DP5 - FLUSH MOUNT Standard Size

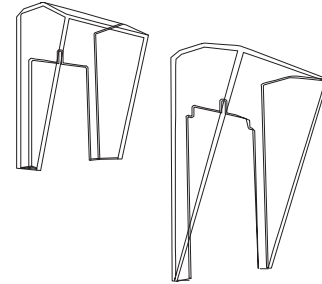
- Fitted with intelligent Pedestrian Access Keypad.
- Touch Switch operation with 99 User Codes.
- Available in Vertical (displayed) or Horizontal Orientation
- Marine Grade Stainless Steel Face plate.
- Blue and White LED Night illumination.
- Supplied with Wall Mount Box to assist installation.
- Optional Surface Mounting Kit is available. (130mm Wide, 264mm High, 30mm Depth).



# 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 just \$39.00.

- Model DPC1 for DP1 Door Phone
- Model DPC2 for DP2 Door Phones
- Model DPC3 for DP3 and DP5 Door Phones



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

## SURFACE MOUNTING KITS

Stainless Steel (304) 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.

Two separate surface mounting kits are available, to cater for the different sized DP2-DP5 Door Phones:

- Model SMK2 for DP2 Door Phones
- Model SMK3 for DP3 and DP5 Door Phones



# OPERATION

**DS5 Plus** is designed for use with a PBX Extension.

The Extension should be programmed with a 'Hot Dial Extension Address'.

Then when a visitor at the door or gate presses the call button on your NATCOMM Door Phone, **DS5 Plus** will immediately go 'Off Hook' and the PBX will Dial the Hot Dial Extension Number. At the same time, DS5 Plus will generate a 'Ring Back' tone to the Door Phone Intercom so that the visitor hears that they are being connected.

A PBX user can then answer the Door Phone Intercom call and will be immediately connected to the visitor so that they can communicate. Communication is Loud and Clear.

The Hang Up tone detection circuit will automatically terminate the Intercom call after the user hangs up

If you have a LOCK MECHANISM fitted, you can open a gate or door lock during a call to allow your visitor to enter, by simply pressing \* \* on your telephone keypad.

## LOCK RELAY 2 (Optional)

If you use the Optional SECOND LOCK CONTROL FACILITY fitted, you can also open an ALTERNATIVE gate or door lock during this call, by pressing \* 2 on your telephone. This command will release Gate Lock 2 until you Hang Up the telephone.

- Pressing \*3 can also close the second internal relay and leave it closed.
- Pressing \*4 can also open the second internal relay and leave it open.

The SECOND LOCK RELAY option can alternatively be used to START and STOP another Device such as a VIDEO CAMERA, DISPLAY MONITOR, RECORDER or to TURN ON and then TURN OFF a 12V LIGHT or a 115V Light (if a separate 115V relay that is also supplied and installed by a technician or electrician).

# CONNECTING THE DOOR PHONE

Our Door Phones all use a 4 Pin Phoenix Socket on the rear of the Door Phone for Connection to ANY Natcomm Controller. A 4 Pin Phoenix Plug is supplied with all Door Phones which allows 4 wires from the Door Phone to connect to the DS5 Plus Controller. A solid core cable should be used to interconnect the devices. Cat5 cable is ideal and will allow the units to be up to 300m apart without any loss of performance.

## Model DP1 DOOR PHONE

DP1 is designed to 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 unit. The backing plate should then be screwed to the wall surface, before re-attaching the Door Phone with the securing screw.

With DP1 this is done by separating the Door Phone unit from the integral backing plate, secured by a screw underneath the unit. The backing plate should then be screwed to the wall surface, before re-attaching the Door Phone with the securing screw.

## Model DP2-5 DOOR PHONES

Our DP2-DP5 are by default designed for Flush Mounting, or they can all be Surface Mounted onto your wall surface using the appropriate Surface Mount Kit (SMK). Wall Mount Screws are supplied with all units.

## AUDIO & POWER CONNECTION

**Audio Connection** – The Centre 2 Pins of the Door Phone Socket are the Audio Pair. They should connect to the 2 Pins either side of the Centre 2 pins of the 8 pin RJ45 socket of DS5 Plus (Pins 4 & 5). 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 center 2 positions of the 4 position Phoenix Plug.

**Power Connection** – The Outer 2 Pins of the Door Phone Socket are the Power Pair. They should connect to the 2 Pins either side of the Centre 2 pins of the 8 pin RJ45 socket of DS5 Plus (Pins 3 & 6). 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. The LED on the DOOR PHONE should turn ON (DS5 Plus must be ON).

# LOCK CONTROL

**DS5 Plus** is provided with ONE (or an Option for TWO) internally fitted relays which can be used to control ONE LOCK, or the Optional Second Relay is ordered, it can control TWO LOCKS or and ONE OTHER DEVICE such as a Video Camera, Recorder or Light. Relay Specification - Dry Relay Contacts rated at 12V/1Amp.

**Do not use the supplied DS5 Plus Controller 12V plug pack to also provide 12V power for the lock, as this may cause damage to DS5 Plus. You must use a separate 12V source, with a maximum rating of 12V/1A.**

## LOCK 1 RELAY FACILITY

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 15 seconds (Default setting). It can be set from 01-99 secs.

Your Door/Gate Lock can also be OPENED at any time by calling the **DS5 Plus** Extension Number and pressing\*\* . The Door/Gate Lock will remain UNLOCKED for 15 seconds (can be 01-99 secs). You do not need to receive a call from the Door Phone first.

## LOCK 2 RELAY FACILITY Optional

To OPEN the ALTERNATIVE Door/Gate Lock after answering a call from your DOOR PHONE you need to press \*2 on your telephone. The lock will remain open until you HANG UP your telephone.

Your ALTERNATIVE Door/Gate Lock can also be OPENED at any time by picking up any telephone and dialling \*2. The Door/Gate Lock will be LOCKED as soon as you hang up. You do not need to receive a call from the Door Phone first.

With the LOCK 2 facility, you can also call into **DS5 Plus**, press \*3 and then HANG UP at any time, which will CLOSE the Internal Relay and leave it closed.

You can also call into **DS5 Plus**, press \*4 and then HANG UP at any time, which will OPEN the Internal Relay and leave it open.

# LOCK INSTALLATION

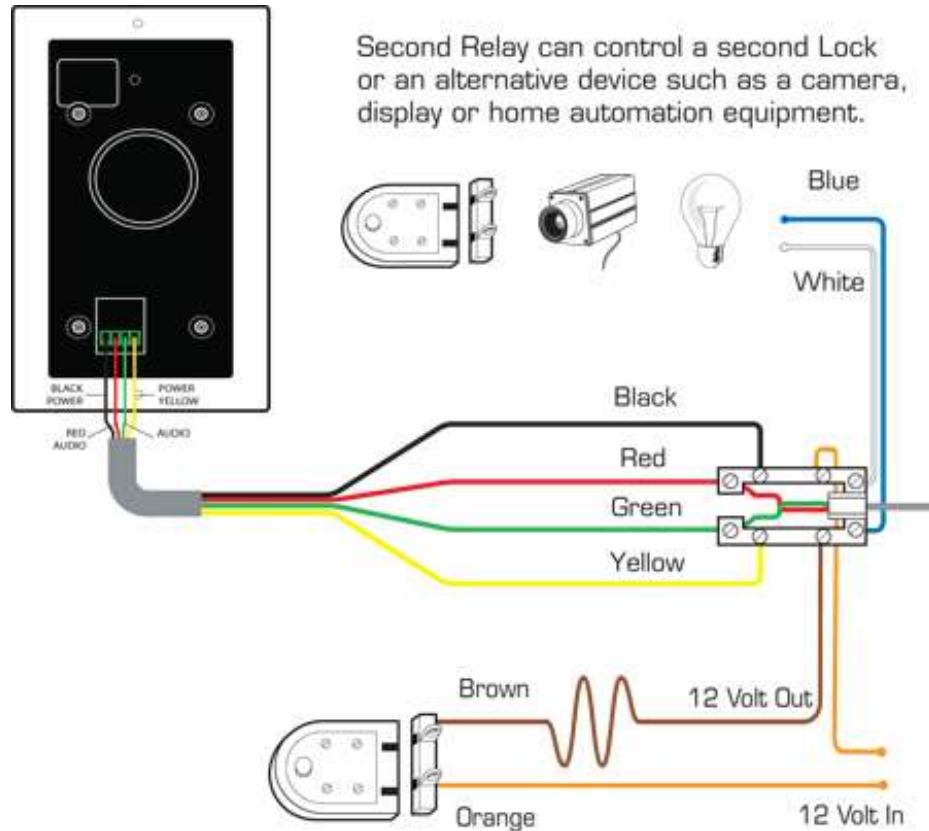
The contacts of each Internal relay of **DS5 Plus** are accessed by the supplied connection adaptor, which has 8 screw terminals.

Both **DS5 Plus** Relays are Dry Contact Relays rated at 12V/1A. The polarity of the Relay connection wires is not important.

**Lock 1** should connect to the Brown and Orange terminals.

**Lock 2** or **Device 2** should connect to the Blue and White terminals.

NOTE- Do not use the supplied DS5 Plus Controller 12V plug pack to also provide 12V power for the lock, as this may cause damage to DS5 Plus. You must use a separate 12V source, with a maximum rating of 12V/1A.





# CALL TERMINATION OPTIONS

**DS5 Plus** has a Hang Up tone detector that will automatically terminate Intercom calls when they are complete. However, there are also 2 other methods of Intercom Call termination:

## 1. BY THE USER PRESSING ANY TOUCH TONE (0-9)

The person answering the Intercom Call can terminate the Intercom call by pressing ANY Touch Tone number (0-9) on their telephone keypad at the completion of their announcement.

**Note : # and \* cannot be used to terminate a call.**

## 2. AFTER A FIXED PERIOD OF TIME

**DS5 Plus** will terminate an Intercom call after a programmable length of time.

**The default connection time for DS5 Plus is : 99 seconds.**

You can change the Maximum Page Call Duration for any period of time between 10-99 seconds in Programming Mode.

**These are back-ups in case any of the above methods fails to take place.**

**DS5 PLUS Hang Up tone detection is very reliable and you are very unlikely to need either above option. They are provided in case DS5 PLUS is exposed to significant EMI Interference which could possibly affect Hang Up tone detection.**

# PROGRAMMING OPTIONS

**DS5 Plus** Switch provides for Three User Programmable settings.

## Relay 1 Closure Time

Allowable Range : 01 to 99  
Default Setting is : 15 seconds

**To Change from the Default Setting, in programming Mode,  
Press : #1xx**

Where xx = number of seconds and can be 01-99  
**For example, press #125 for 25 seconds**

## Relay 2 Operation

Allowable Range : 01 to 99  
Default Setting is : 00 seconds

**Relay 2 can be used in Two different ways :**

**Lock Operation** - If you want to operate Relay 2 to control a Door or Gate Lock using the command \*2, you should leave the setting as 00 (The Default)

**Device Operation** - If you want to operate Relay 2 to control another device by Closing as soon as the Intercom is Triggered, then you should enter a value of 01-99 in this area, this value is the time in seconds that the Relay will remain closed AFTER HANG UP. This facility will allow you to for example to control a Video Recorder and where the Video Recorder remains recording for 01-99 seconds after Hang Up.

**To Change from the Default Setting, in programming Mode,  
Press : #2xx**

Where xx = number of seconds and can be 01-99  
**For example, press #215 for 15 seconds**

## Maximum Call Time

Allowable Range : 15 to 99  
Default Setting is : **99 seconds**

**To Change from the Default Setting, in programming Mode,  
Press : #3xx**

Where xx = number of seconds and can be 01-99  
**For example, press #345 for 45 seconds**

# PROGRAMMING PROCEDURE

You can program 1 or more parameters, in any order, during the same programming call. Should you need to program DS5 Plus, please follow the procedure below :

### **1) Call the Extension Number to which DS5 Plus switch is connected.**

**DS5 Plus** switch will Answer after 1 ring (you should hear 1 beep)

After the 'beep', press **# #** (you should hear 3 beeps)

(This will take you into program mode)

### **2) Change the settings as per the details on Pages 11-12.**

You will hear a single beep after each correct entry

### **3) Hang Up when Programming is complete.**

# SPECIFICATIONS

Dimensions (inches)	:	4.2 (W) x 4.2 (D) x 1.7 (H)
Dimensions (mm)	:	106 (W) x 106 (D) x 43 (H)
Weight	:	6 ounce or 170g
<b>Power Supply</b>	:	<b>12VDC/1A minimum (Centre +ve only)</b>
Network Connector	:	RJ 45 8 pin
Intercom Port Connector	:	RJ 45 8 pin (4 center)
Power Connector	:	2.5mm barrel connector
FCC & IC COMPLIANT	:	Supplier Number NC

## 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 a problem, please call ph (07) 5596 5128 for assistance and if necessary, a Return Authorization. You should then return your unit, along with the proof of purchase date, and a written statement about the nature of the problem.

The Manufacturers obligation is solely to repair or replace the product. The product may be replaced at the discretion of the Manufacturer. The warrantor is not liable for any incidental or consequential damages due to such defects.

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

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, over voltage surge or excessive water is not covered under this warranty.

**THE CASE IS SEALED AT THE FACTORY.  
OPENING THE CASE WILL VOID THE WARRANTY.**