

TELEPHONE TECHNICAL SERVICES

DP3

USER GUIDE



Manufactured in Australia for
Telephone Technical Services
PO BOX 675
SPRINGWOOD QLD 4127

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DESCRIPTION

Our Model DP3 Flush Mount Door Phone is specifically designed for connection to a **Telephone Technical Services DOOR STATION CONTROLLER**. It can be FLUSH MOUNTED or SURFACE MOUNTED if the optional SMK3-V or SMK3-H Surface Mount Kit is used (see p14).

Up to two of our Door Phones can be connected to the one DOOR STATION (CONTROLLER). This allows for a Door Phone to be located at two different locations. In this situation, the Door Phone devices are connected in parallel (see wiring directions page 13).

DP3 is available with a 316 Marine Grade Stainless Steel fascia plate, which has been coated with a tough transparent protective polymer material, or with a Brushed Aluminium front fascia plate.

Our DP3 units incorporate a 'touch sensitive' switch, in order to further improve it's long term reliability. This switch is activated by a brief touch.

All DP3 units are designed to be highly WEATHER RESISTANT and they have proven to be reliable over long periods of time, providing they are not exposed to direct rain. Whenever your Door Phone is likely to be exposed to RAIN, an optional DOOR PHONE COVER or a SURFACE MOUNTING KIT with Rain Deflector should be used (see pages 14-15)

All DP3 models can be mounted either horizontally or vertically but for aesthetic reasons, they are also available with the BELL of the Touch Sensitive trigger area orientated in a Horizontal or Vertical Orientation.

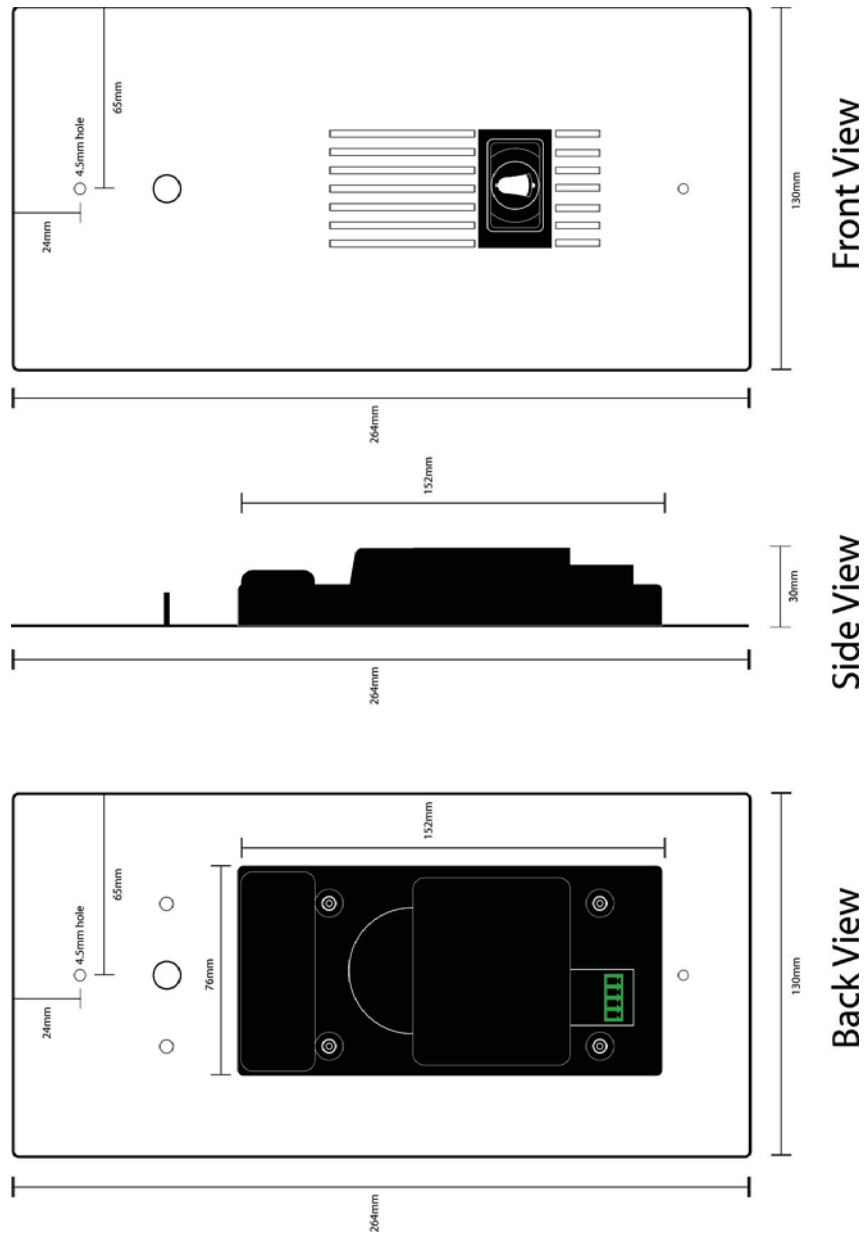
There are 4 Models of DP3 :

DP3-AV	Aluminium Fascia	- Vertical Orientation
DP3-AH	Aluminium Fascia	- Horizontal Orientation
DP3-SV	Stainless Fascia	- Vertical Orientation
DP3-AH	Stainless Fascia	- Vertical Orientation

DP3 incorporates a 10mm (Aluminium Fascia) or 12mm (Stainless Steel Fascia) hole which is sealed with strong transparent perspex plate which will allow you to fit a Digital Camera behind the Door Phone plate. Two threaded mounting studs are provided for this purpose.

We alternatively offer a **Model DP4 Door Phone** which is the same as DP3, but includes an integrated, Low Light, High Resolution Digital Colour Camera, in a sealed plastic enclosure (see page 5).

MODEL DP3 DOOR PHONE



DOOR PHONE RANGE

A choice of Five Door Phones are provided for use with our range of Door Station Controller units :

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).



DOOR PHONE PERFORMANCE

Our DP3 Door Phones can operate at distances of up to 300 meters from the Controller, providing high quality cabling such as CAT5 is used.

This product is IDEAL for RESIDENTIAL USE or COMMERCIAL USE, where ROAD NOISE is NOT HIGH.

It is not designed for INDUSTRIAL USE where ambient noise can be constantly high.

The volume of the audio communication on the internal phones should be comfortably audible (a similar level to a telephone call) providing :

- The person at the Door Phone is talking directly towards the Door Phone and at a distance of no more than 1 to 2 feet away (max 500-600 mm).
- The Door Phone is mounted at a height of about 1.5 meters (5 feet). You can mount at a lower level to allow for very young children, but volume will suffer.
- No plates or other material are placed over the front face of the Door phone. Our Door Phone Cover accessory, or a properly designed Rain Hood will not affect performance.

The volume of the audio communication at the Door Phone should be comfortably audible, providing :

- There is not excessive road noise or other noise near the Door Phone. This will affect the automatic gain circuit used in this device.
- That high quality ADSL FILTERING is fitted ahead of the DS CONTROLLER where ADSL is used on the same line. If you do not do so, volume in both directions will be affected. Refer to your Door Station Controller User Guide for detailed information on the use of ADSL with this product.

OPERATION

After initial Power Up, the Door Phone will take up to 5 seconds to initialise.

To commence a Door Phone call, you should press the BELL on the Door Phone briefly. The LED will then turn OFF and you will hear a RING TONE until the call is answered.

This Door Phone will trigger a Door Station Controller that will either RING all the telephones connected to your telephone line or it will operate with a PABX system.

As soon as the call is answered, you will be able to communicate with loud and clear call quality.

If this Door Phone is connected to a Model DS6 Controller, you will also have the ability to connect to an external telephone number, or cell phone whenever the site is unattended.

Our Door Phones use an intelligent, fast switching 'half duplex' communication method, as this provides for highest volume levels and eliminates feedback. With this method, the party that talks LOUDEST will take priority and will be connected to the other end.

After your Door Phone call is completed, there will be a delay of approximately 5 seconds before the unit has reset and is ready for the next call.

For maximum clarity, it may be necessary to adjust the Balance Pot (see page 9).

**WHEN TESTING YOUR DOOR PHONE
DO NOT USE A TELEPHONE IN CLOSE PROXIMITY
AS FEEDBACK WILL CAUSE LOSS OF VOLUME.**

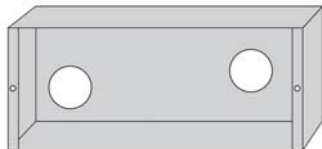
MOUNTING THE DOOR PHONE

The DOOR PHONE should be mounted at the average face height of 1.5 meter (5 feet) for optimum performance.

The main body of the DP3 unit is designed to be recessed into a wall surface. It is normally fitted horizontally, but can also be fitted vertically.



To speed up installation, you may wish to purchase the optionally available Galvanised Iron 'Wall Mount box', which can be fitted within the wall cavity.



There are 2 sizes : Model WMB3 is required for use with DP3. The Door Phones are then screwed onto the WMB by using the 2 supplied stainless steel mounting screws.

When using the WMB3, you must allow for a recess area of : 255 mm, 93mm, D 40mm.

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.

See page 14 for further detail.

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, it is possible that you will 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.

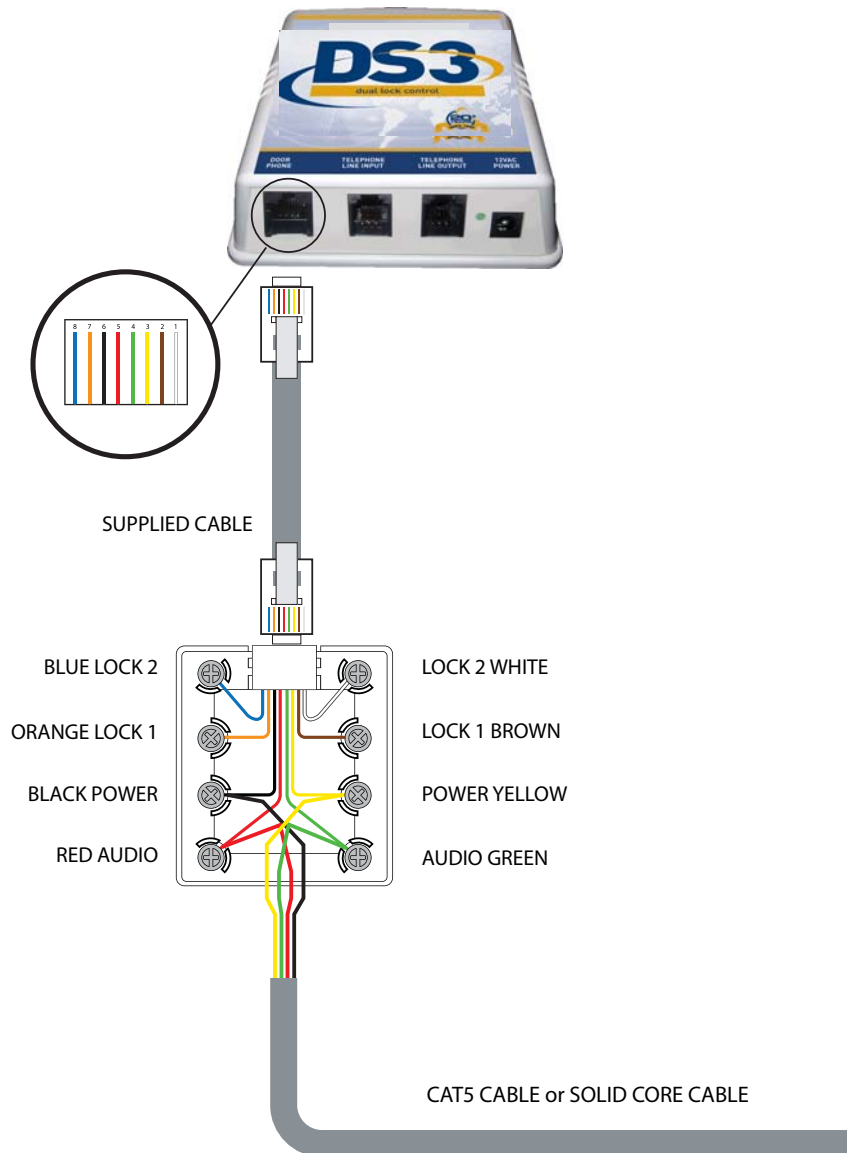
Should you encounter one of these problems, you will need to make slow careful adjustments in one direction or the other until speech can be heard in both directions and without distortion.

The balance POT is located on the back of DOOR PHONE under a small 3mm removable black plastic plug. It should be adjusted using a small flat blade screwdriver.

IMPORTANT NOTES

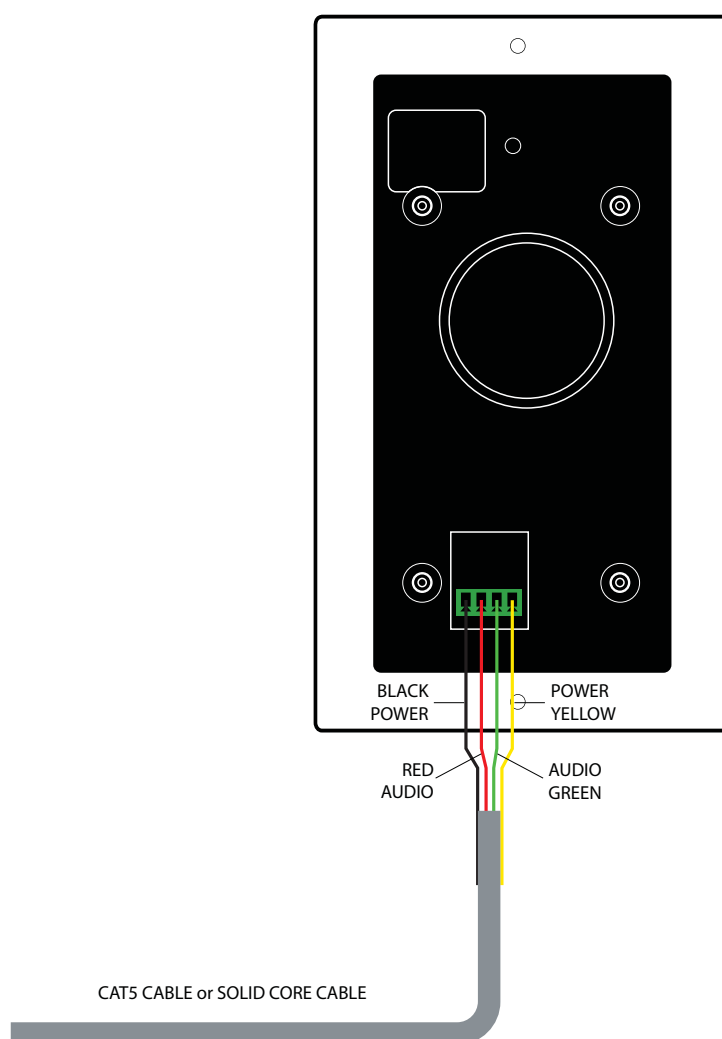
- 1) You will require TWO PEOPLE to adjust your Door Phone.
- 2) Wait 10 seconds after answering before adjusting the Pot.
- 3) DO NOT USE A TELEPHONE IN CLOSE PROXIMITY TO THE DOOR PHONE, as feedback interference will affect the Balance Pot settings.
- 4) The Balance POT does not increase volume. Moving it when unnecessary may cause a deterioration in audio quality or a loss of audio in 1 direction.

CONTROLLER WIRING



The colours used are those of the wires in the supplied Interface box.

DOOR PHONE WIRING



The colours used are those of the wires in the supplied Interface box.

WIRING CONNECTION

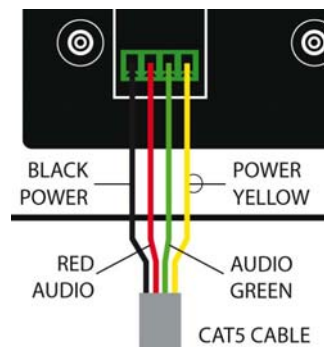
Solid core cable such as CAT5 should be used to connect between the DS Control unit and the Door Phone unit. The DS Control unit has a standard 8 wire RJ45 connector. The Door Phone uses a 4 position Phoenix Style plug.

Four wires are used to connect the Door Phone to the DS Control unit. Two wires are required for each internal relay used for Lock control. A maximum of 8 wires is required for installation, so a CAT5 cable is ideal

An external connection box with 8 screw terminals is supplied with your DS Control unit. The connection box provides a convenient means of connecting the 2 or 4 wires used for 1 or 2 Gate or Door locks to the internal relays of the DS Controller. The connection box connects to the DS Control unit via the supplied short RJ45 cable.

Where LOCK CONTROL is not required, you can bypass the connection box and connect your CAT5 cable direct to the DS Controller. For details see page 13.

There is a 4 position Phoenix Style press in connector socket on the rear of the Door Phone, to which you connect the Audio and Power wires.



Two wires are required for the AUDIO SIGNAL and Two wires are used to provide POWER to the unit.

The Audio signal connects to the middle Two positions of the socket.

The Power input connects to the outside Two positions of the socket.

Note : The polarity of the Audio signal and power connections is not important and can be reversed.

Important Note : The colours referred to on this page and page 13 are those of the wires in the supplied interface box.

The **RED WIRE** of the connection box, carries one leg of the Audio Signal. It must connect to EITHER centre position (pin 2 or 3) of the supplied Phoenix plug. Note - Polarity is not important.

The **GREEN WIRE** of the connection box, carries the other leg of the Audio Signal. It must connect to EITHER centre position (pin 2 or 3) of the supplied Phoenix plug. Note - Polarity is not important.

The **BLACK WIRE** of the connection box, carries one leg of the 12V Power input. It must connect to EITHER outer position (pin 1 or 4) of the Phoenix plug. Note - Polarity is not important.

The **YELLOW WIRE** of the connection box, carries one leg of the 12V Power input. It must connect to EITHER outer position (1 or 4) of the Phoenix plug. Note - Polarity is not important.

Where Two Door Phones are to be used, they should both connect to the same contacts of the interface box (ie: parallel connection).

The **ORANGE and BROWN WIRES** of the connection box connect to the Internal Relay used for Lock 1. Connect ONE leg of the 12V power for Lock 1 to these terminals, by cutting the wire in half and fit one part to the screw terminal connecting to the Orange wire and the other to the screw terminal connected to the Brown wire. Polarity is not important.

The **BLUE and WHITE WIRES** of the connection box connect to the Internal Relay used for Lock 2. Connect ONE leg of the 12V power for Lock 2 to these terminals, by cutting the wire in half and fit one part to the screw terminal connecting to the Blue wire and the other half to the screw terminal connected to the White wire. Polarity is not important.

BYPASS CONNECTION BOX

If you don't plan to use the connection box, then you can connect the CAT5 cable direct to the DS Control unit and Door Phone, as follows :

AUDIO CONNECTION (polarity is not important)

The centre 2 pins of the DS Controller RJ socket need to connect to the centre 2 positions of the DP2 Phoenix socket.

POWER CONNECTION (polarity is not important)

The 2 pins either side of the centre 2 pins of the DS Controller socket connect to the 2 outer positions of the 4 pin Phoenix socket.

SURFACE MOUNTING KITS

Stainless Steel Surface Mounting Kits are available for all 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 two different sized Door Phones (DP2-DP5) that can be mounted vertically or horizontally.

All kits have an integrated Rain Deflector.

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



DOOR PHONE COVER

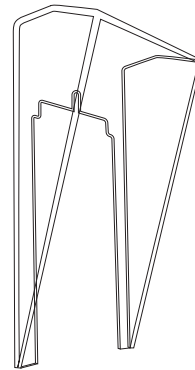
If your Door Phone is not under cover, a strong transparent DOOR PHONE COVER is essential to ensure that water from rain cannot gradually permeate through to the electronics of the Door Phone which can cause unreliable operation and can eventually lead to permanent failure of this device.

COVERS FOR VERTICAL MOUNTED DOOR PHONES

Model DPC1-V : for Model DP1 Door Phone

Model DPC2-V : for Model DP2 Door Phone

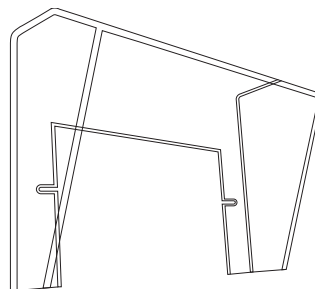
Model DPC3-V : for Model DP3, DP4, DP5



COVERS FOR HORIZONTAL MOUNTED DOOR PHONES

Model DPC2-H : for Model DP2 Door Phone

Model DPC3-H : for Model DP3, DP4 Door Phones



SPECIFICATIONS

Dimensions(all in mm)	:	264 mm x 130 mm x 33 (D)
Weight	:	430g
Communications Connector	:	Phoenix 4 pin
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**