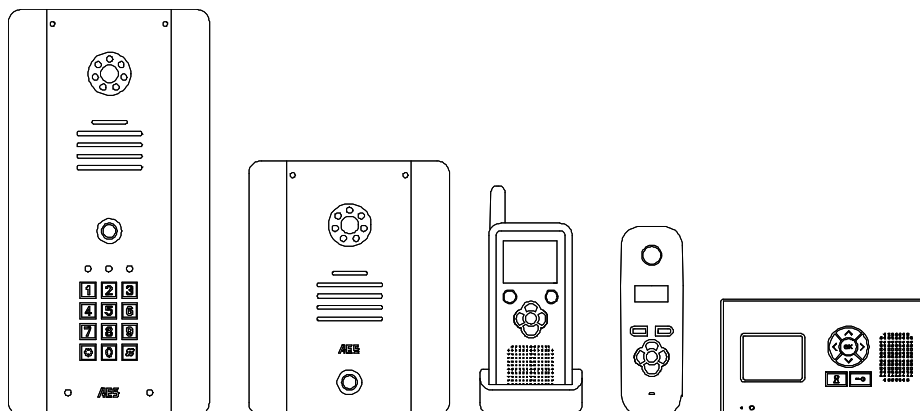


Installation & User Manual
For
605/705 DECT+2.4G Intercom



V2

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Overview of System

Please read this entire manual before attempting to install this system.

This system should only be installed by a professional automatic gate installer or access control specialist installer.

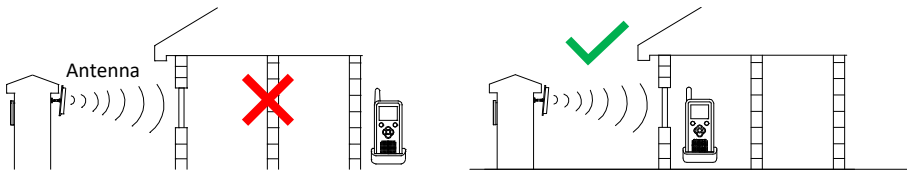
It is recommended that the system be range tested on site BEFORE being fully installed.

Site Survey

Before installing this system, you need to be sure that the range of the system will be sufficient.

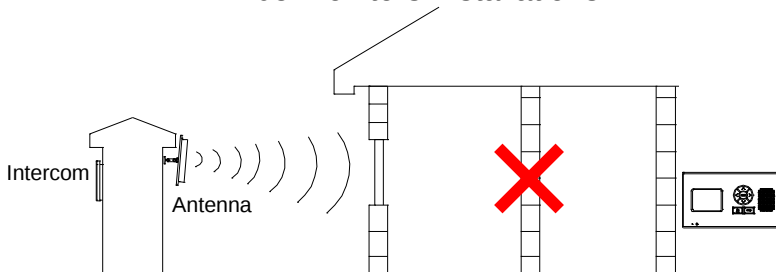
The transmitter and speech unit can be powered up, call button pressed, and then check that the handset will ring from all areas in which it will be used.

605 Handsets Installations

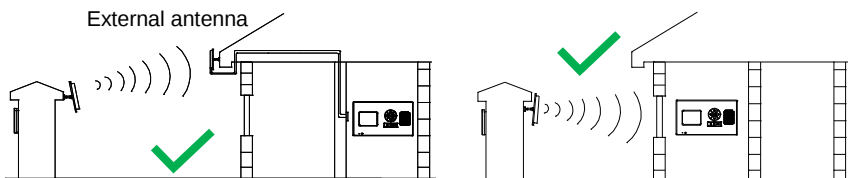


Tip: For longer range installations, locate the handset close to the front of the property, near a window if possible. Concrete walls can reduce the open air range of 350 metres by 30-50% per wall.

705 Monitors Installations

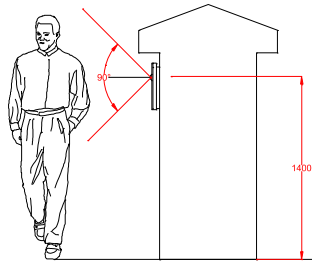


Tip: The 705 monitor has a built-in antenna/receiver, it is best to use this for short range installs. (see diag.1) For longer range installs, fit an external antenna (see below, check local radio authority).



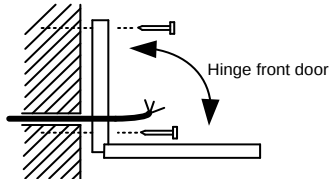
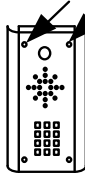
Installation

Assuming satisfactory operation at full range, you are ready to fully install the product.



Mount the intercom at the desired height for pedestrian or car users. The camera angle is wide at 90 degrees to cover most scenarios.

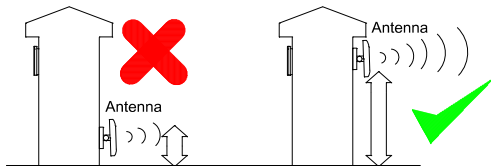
Loosen top 2 screws only



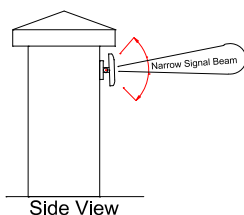
Side View

Tip: Do not drill holes in the wall with the intercom in position, otherwise dust may get around the camera window and impair the camera view.

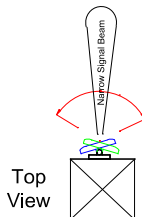
Mounting the Antenna



Mount the antenna as high as possible to achieve longest range.



Side View



Top View

TIP: Antenna beam width is approximately 40 degrees. For short range door intercoms, ask your distributor or dealer for an omni-pole type antenna with 360 degree beam angle.

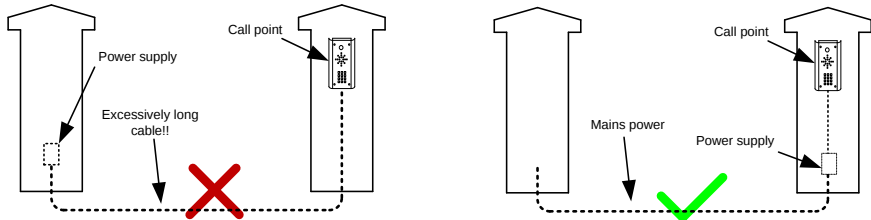
Power Supply

TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit. Neither are rated to carry enough power (1.5 amp peak). Please use following cable sizes...

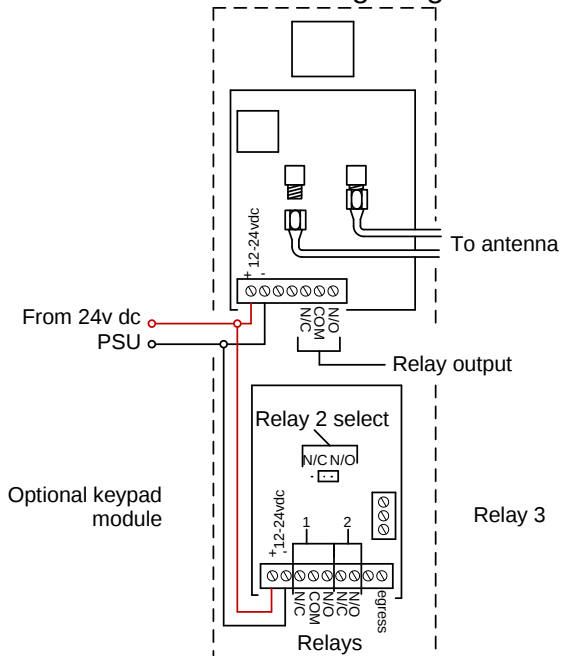
Up to 2 metres (6 feet) – Use minimum 0.75mm² (18 gauge)

Up to 4 metres (12 feet) – Use minimum 1mm² (16 gauge)

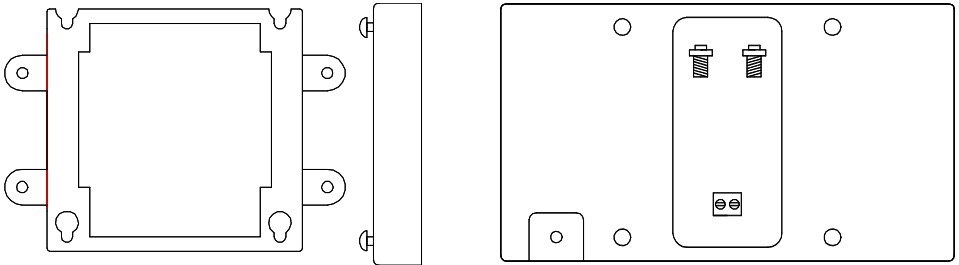
Up to 8 metres (24 feet) – Use minimum 1.5mm² (14 gauge)



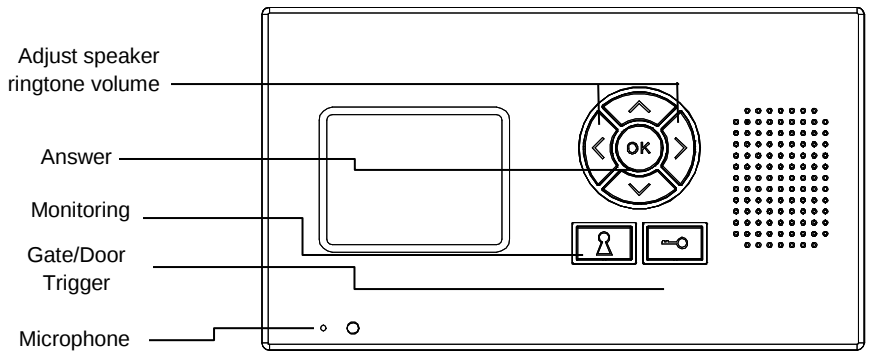
Door Station Wiring Diagram



705 Video Monitor Wiring and Mounting

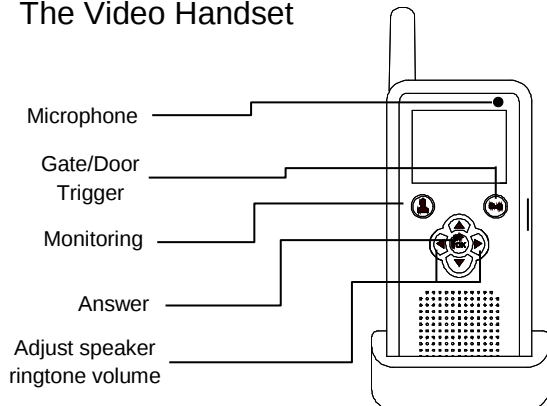


705 Video Monitor



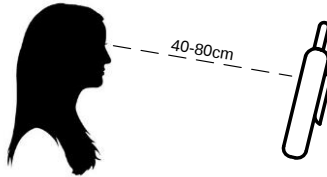
The Video Handset

The Video handset should be charged for 8 hours before use. It is recommended to give it at least 1 hour charge before range testing.



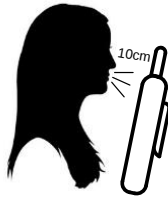
Answering Calls

1. When the intercom calls, identify the visitor on the screen.



2. Press the OK button to answer the call.

3. Speak clearly into the top of the handset at a distance of 10-20cm.



4. During the call press < or > to increase or decrease volume.

5. Press  to activate door or gate release and press OK to end the call.

Note: The video will remain active for 1 minute after the audio call is ended.

Settings

The following settings can be changed on both the video monitor and handset. To change any of the following settings, put the system into monitoring mode by pressing and holding the  key for a few seconds.

Press and hold
for 3 seconds



1. Brightness – Adjusts screen brightness.

2. Language – English, French Or German.

3. Messages – Listen to or delete saved or older voicemails. (press KEY to delete any message).

4. Bell – Change ring tone.

5. Colour – Increase or decrease screen colour.

Use up and down arrows to navigate, and OK to select an option. Press right arrow to exit.

Voicemail

When a call is not answered within 40 seconds, the visitor can leave a message. Once complete, the handset will display the ☒ symbol. The unit can store up to 16 messages.

To listen to voicemail, press MENU to play. If there are more than 1 message, press ▲ and ▼ to select the message required and press MENU to play. ☒ = Delete. Long press = delete all.

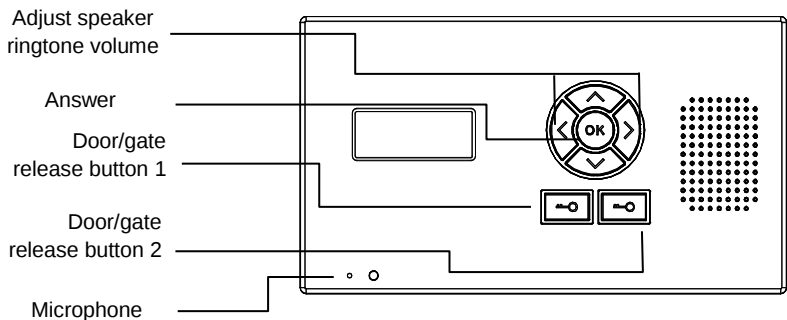
Relay Trigger Time

Press and hold the menu button for 3 seconds and the display will show "ti". Use the up and down arrows you can select the relay Latch time 1- 9 seconds. Press "OK" to save and arrow right to exit

Adjusting the Time

Press MENU for more than 2 seconds, and then use up and down arrow keys to set hour. Press MENU again to cycle to minutes and adjust. Press MENU once more to end the process.

Optional Audio Monitor



Optional Audio Handset

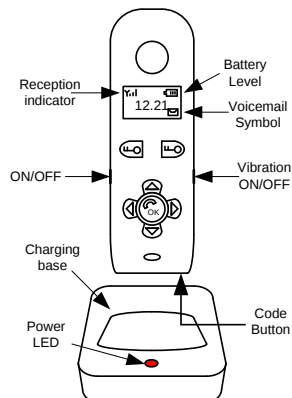
The handset should be charged for 8 hours before use. It is recommended to give it at least 1 hour charge before range testing.

Ring Another Handset

Press ► and the unit will display HS1-5 depending on how many handsets are coded. Press ▼ and ▲ to select and then OK to call that handset.

Voicemail

When a call is not answered within 40 seconds, the visitor can leave a message. Once complete, the handset will display the ☒ symbol. The unit can store up to 16 messages.



Change Ring Volume

Press ▲ and ▼ to increase and decrease ring volume and press OK to save.

Change Ring Tone

Press ◀ and the handset will ring with its currently selected tone.

Press ▲ and ▼ to cycle through available ring tones and press OK to select and save.

To listen to voicemail, press OK to play. If there are more than 1 message, press ▲ and ▼ to select the message required and press OK to play. ☒ = Delete (Relay 1). Long press = delete all

Re-coding the Handsets / Adding an Extra Handset

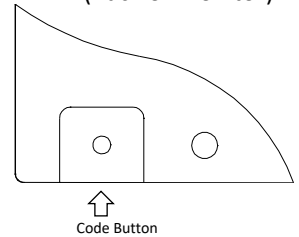
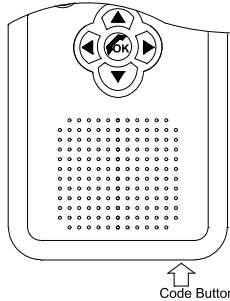
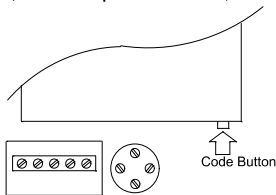
Occasionally a system may need re-coded when it arrives on site. If the handset does not ring when the call button is pressed, please perform the following steps..

1. Press and hold the code button on the speech panel as shown for 3 seconds.
2. Press and hold the code button on the handset (use a fine object like ball point pen) for up to 10 seconds.
3. While holding, the handset should bleep once, then bleep again, then emit a melody confirmation tone.

(Handset)

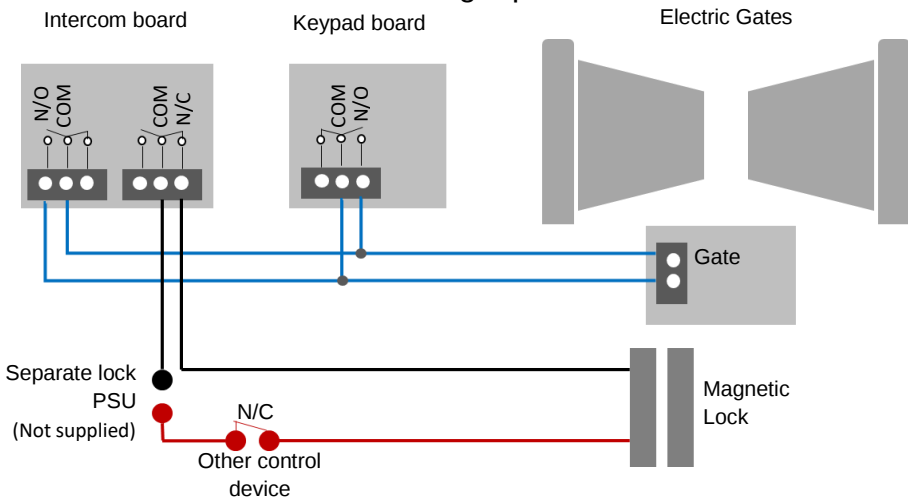
(Back of Monitor)

(Inside Speech Panel)



Once the melody is heard, the handset should then be working. The system should now be ready for testing.

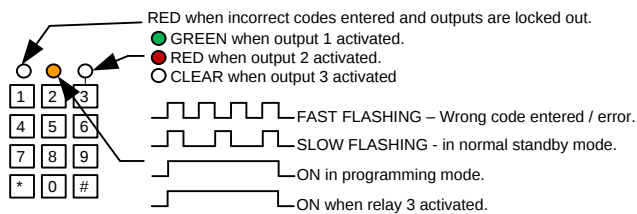
Wiring Tips



Note: The manufacturer can only support the use, operation and functionality of the intercom and keypad themselves. Professional wiring to door release or automatic gate systems is the responsibility of the installer. Please consult a security integrator for further support.

Keypad overview

This keypad has 3 outputs. The diagram below shows the LED indicators which indicate programming and relay status information.



TIP: After power up, as a security precaution, the keypad cannot be programmed for 60 seconds. Once this time elapses, you may begin.

TIP: Flashing amber LED is normal standby mode.

Basic Keypad Programming

Quick start guide

1) Enter programming mode (amber LED should be ON)

0 0 0 0 * *

2) Enter a new user code...

1 0 2 0 0 0 ? ? ? ? #

3) Exit programming mode

* *

4) Enter the new user code to check the relay clicks.

Tip: The engineer code must be the same length as user codes. So if using a 6 digit engineers code, then user codes must also be 6 digits long etc.

Full Keypad programming

Enter programming mode..

0 0 0 0 * *

The unit is now in programming mode. Amber LED on the keypad should remain permanently on. 0000 is the default programming passcode.

Exit programming mode..

* *

The unit should exit programming mode and the amber LED should start flashing again.

Enter a new ENGINEERS code...

Go into programming mode firstly then enter the following sequence...

0 1 ? ? ? ? #
Location 4-8 digit code Validate

Replace ??? with your new ENGINEERS code.

Enter or delete new user codes

There are 3 groups of user codes. Group 10 for relay 1, group 20 for relay 2, and group 30 for relay 3. The programming sequence is shown below...

1 0 2 0 0 0 ? ? ? ? #
10= relay 1 codes (1000 available) 2= add code 5= delete code Memory locations 000-999 for relay 1 001-100 for relay 2 001-100 for relay 3 Pin code 4-8 digits Validate

Example: Add user 31 to have access code 5555 operating relay 2....

2 0 2 0 3 1 5 5 5 5 #
Group 2 Add code Location 31 Pin code 5555 Validate

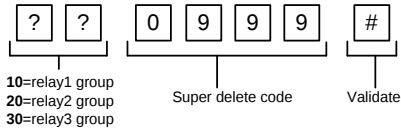
Programming relay output times and modes...

? ? 0 or 1 - 9 9 9 9 9 #
51=relay1 52=relay2 53=relay3 0 = start / stop toggle mode (latching) 1-99999 = seconds momentary operation Validate

Delete a user code even if you don't know the code...

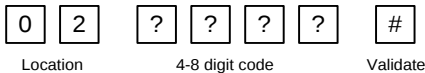
? ? 5 ? ? ? #
10=relay1 20=relay2 30=relay3 Delete code ID location to be deleted Validate

Delete an entire group of codes



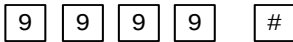
Programming super user codes...

A super user code can activate any of the 3 relays



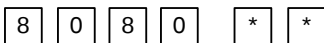
Restoring defaults

When in programming mode, you can enter the following sequence...



When the master code is forgotten....

- 1) Wire a push button (or replicate with wire link) across the Egress terminal and (-)GND.
- 2) Switch off power for 1 minute.
- 3) Switch ON power.
- 4) during the first 60 seconds, press the EG button once to enable the function.
- 5) Enter the following code..



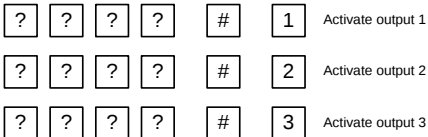
The keypad should now be in programming mode, ready to accept new data.

Using the keypad

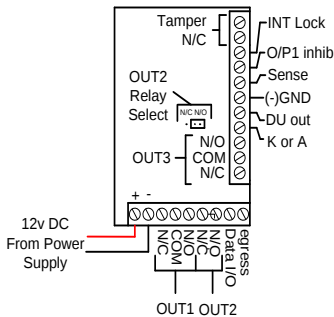
Using the standard codes...

Once you have exited out of programming mode, simply enter the user code.

Using super user codes



Advanced Keypad Connections



Advanced connections

INT Lock – Used to operate a door in conjunction with another keypad. 24v dc max voltage, 100mA sink.

O/P1 inhib – When closed, this disables all codes for relay group 1.

Sense – N/C connected to (-)GND, to be connected to N/C door contact. Can be used to generate door open or tamper alarm.

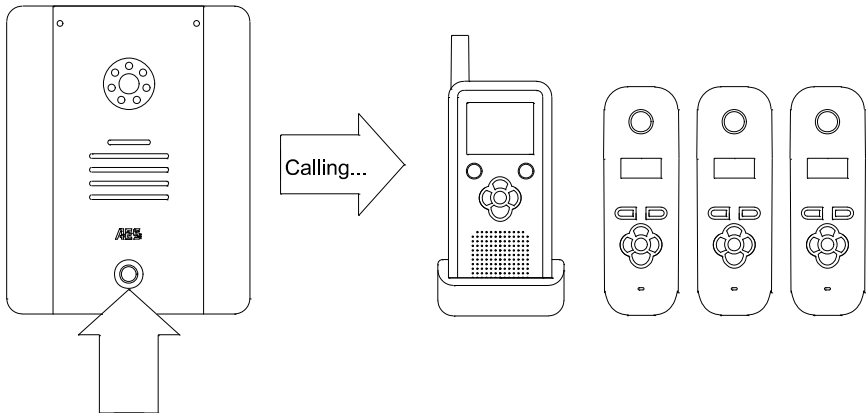
DU out – switches to (-) ground after the Duress Code is entered. Used to trigger alarm zone, or buzzer to notify guard. 100mA sink, 24VDC.

K or A – Not used.

DATA I/O PORT (Data Communication Bus) The Data I/O port is prepared for setting up a data bus for the connection of the auxiliary reader-keypads and the split-decoder in system expansion

Testing

1. Press the call button on the intercom and all coded handsets should ring (max 4 handsets).



2. Answer the call on any handset and adjust speech volume while on the call as per instructions.
3. Activate the door or gate release and check the relay activates.

Maintenance of the Intercom

The stainless steel can dull or discolour over time in weather conditions or in winter if exposed to road salt. This can be polished with a suitable stainless steel cleaner or re-brushed with an abrasive pad or sand paper, observing the directionality of the grain.. Take care when cleaning the acrylic face. This should be gently wiped with a soft damp cloth to prevent scratching.

Troubleshooting guide

Q. The unit will not ring the handset.

- A. Try re-coding the handset and transmitter as per instructions.
- Check push button wiring to the transmitter with multi-meter.
 - Check power cable distance from power adaptor to transmitter is less than 4 metres.

Q. The person on the handset can hear interference on the call.

- A. Check cable distance between the speech unit and transmitter. Shorten this if possible.
- Check cable used between the speech unit and transmitter is screened CAT5.
 - Check that the screen of the CAT5 is connected to ground in the transmitter as per wiring instructions.

Q. Keypad code not operating the gate or door

- A. Check if the corresponding relay indicator light comes on. If it does, then the fault is either a power problem with excessive cable run, or wiring. If the relay can be heard clicking, then it is a wiring problem. If a click cannot be heard, then it is likely a power problem. If the light does not activate and the keypad emits an error tone, then the issue is likely a programming error.

Q. My handset will not recode

- Try the process again. If it still does not work, delete the code from the transmitter. To delete code, press the code button for 3 seconds and release. Then press it 7 times after which a tone should be heard. Then press another 7 times. Now try re-coding the handset again as per the procedure.

Q. Range problem – Handset works beside the intercom, but not from inside the building

- A. Check that the power cable to the transmitter is within guidelines and is heavy enough gauge. Insufficient power cabling will reduce transmission power! Check that there are not excessive objects blocking the signal, like large dense shrubs, vehicles, foil lined wall insulation etc. Try to achieve line of sight between both devices.

Q. No speech in either direction

- A. Check CAT5 wiring between speech panel and transmitter. Disconnect, re-strip cables and re-connect again.

Q. Handset will not charge

- A. Try replacing both batteries with equivalent Ni-Mh batteries firstly. It is possible to have a dead cell in a battery which can prevent both batteries from charging.
- Check for contamination or grease on the charging pins at the base of the handset (gently scratch with screwdriver or wire wool).

Q. The unit will not power up / there is a short circuit on the power supply

A. This can be caused by the inbuilt surge protection being short circuited due to a surge, over voltage, or wiring fault. Disconnect all wiring, check, and re-wire again. If the fault still appears, contact your dealer for service.

Version			Reason for change
P	H	S	
1	1	1	First version.
1	2	1	PCB upgrade. Changed to 24v volts

EU-RED Declaration of Conformity

Manufacturer: Advanced Electronic Solutions Global Ltd

Address: Unit 4C, Kilcronagh Business Park, Cookstown, Co Tyrone, BT809HJ, United Kingdom

We/I declare, that the following equipment (DECT & 2.4G intercom, handset, charging base and intercom door station), part numbers:

Multiple Model kit part numbers: 605-AB, 605-ABK, 605-BE, 605-BEK, 605-BFT, 605-BFTK, 605-IMP, 605-IMP, 605-EDG, 605-EDGK, 605-EH.

Complies with the following essential requirements for 2014/53/EU:

ETSI draft EN 301 489-1 V2.2.0 (2017-03)

ETSI draft EN 301 489-6 V2.2.0 (2017-03)

ETSI EN 301 406 V2.2.2 (2016-09)

ETSI EN 301 489-17 V3.2.0 (2017-03)

ETSI EN 300 328 V2.1.1 (2016-11)

EN 62311:2008

EN 62479:2010

EN 60065

CE
1313

For FHSS frequency; 2409.5 – 2475 (MHz). For DECT channel frequency; 1881.792 (MHz)

The maximum conductive power is 14.1dBm

The EIRP is $14.1\text{dBm} + 0\text{dB} = 14.1\text{dBm} = 25.70\text{mW}$

The average power is $25.70\text{mW} \times \text{Duty cycle} = 25.70\text{mW} \times 1/24 = 1.07\text{mW}$

The antenna gain is: 0dB

The notified body is: Bay Area Compliance Laboratories Corp (CAB number 1313).

This declaration is issued under the sole responsibility of the manufacturer.

Signed by:



Paul Creighton, Managing Director. Date: 1-Feb-2018

Australia / New Zealand Approvals:

AZ/NZS CISPR 32 :2015

This product is not a complete product until fully installed. It is therefore considered a component part of an overall system. The installer is responsible to check that the end installation complies with local regulatory requirements. This equipment forms part of a "fixed installation".

The manufacturer cannot legally offer technical support to non-qualified gate or door installers. End users should employ the services of a professional install company to commission or support this product!

