



contacta STS-K003L Window Intercom System User Guide

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Window Intercom System
Flush Mounted Kit – STS-K003L



Installation & User Guide
January 2020

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STS-K003L Window Intercom System

Contacta has a policy of continuous product development, and therefore small specification changes may not be reflected in this manual. Images, labels, packaging, accessories and product colours are subject to change without notice.

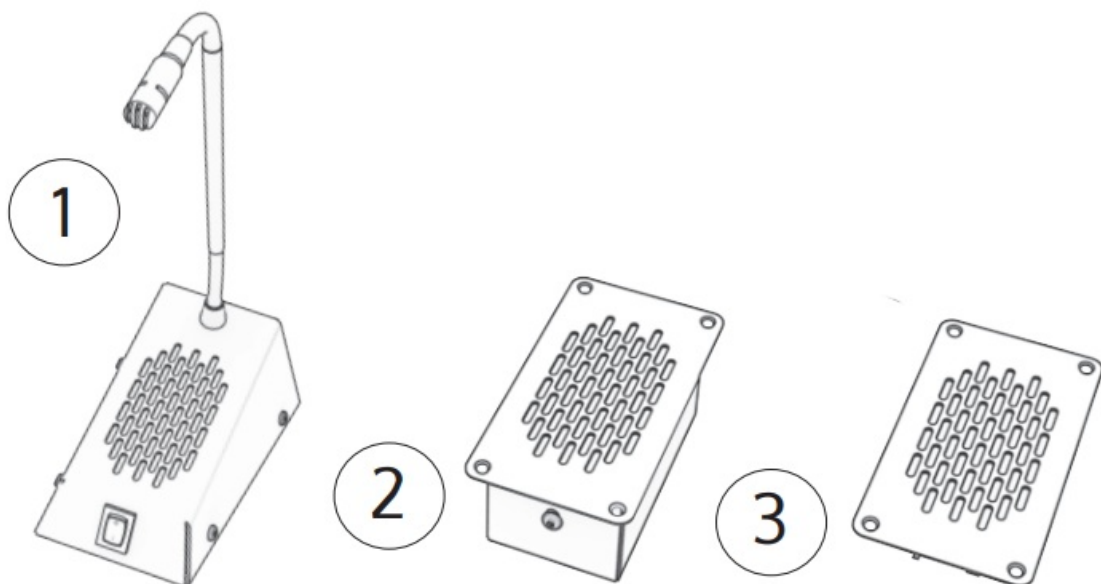
Product Overview

Window intercom systems provide assistance for clear communication where normal speech is impaired by use of glass, a security screen or other similar barriers.

There is a hearing loop facility included, providing additional assistance for hearing device wearers.

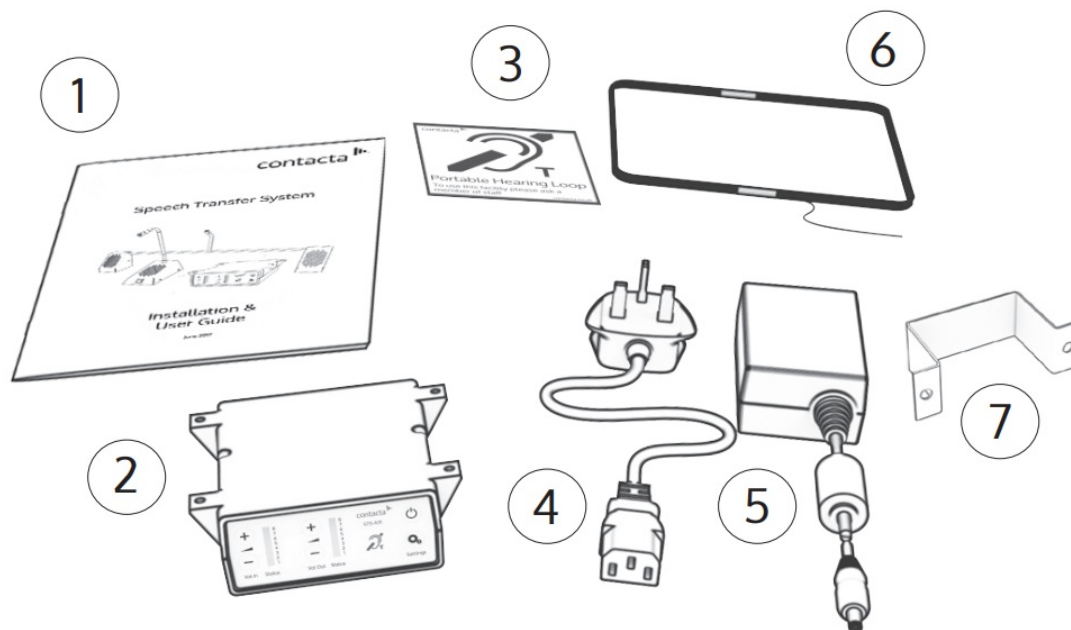
Speaker & Microphone Components

1. Staff Microphone
2. Flush Mounted Speaker
3. Flush Mounted Microphone



General Components

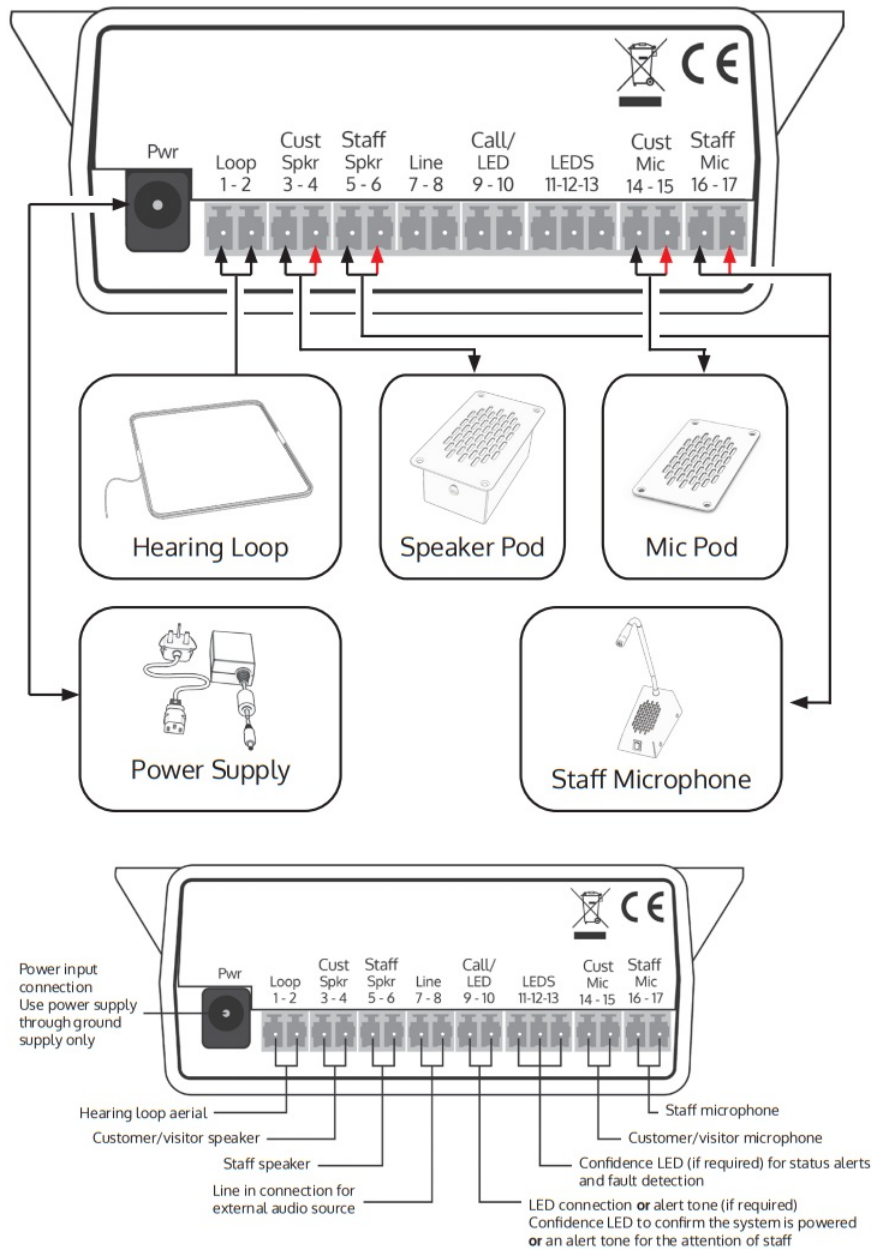
1. Installation and User Manual
2. Amplifier
3. Hearing Loop Sticker
4. IEC Lead
5. Power Supply
6. Hearing Loop Aerial
7. Mounting Bracket



Fixing Kit:

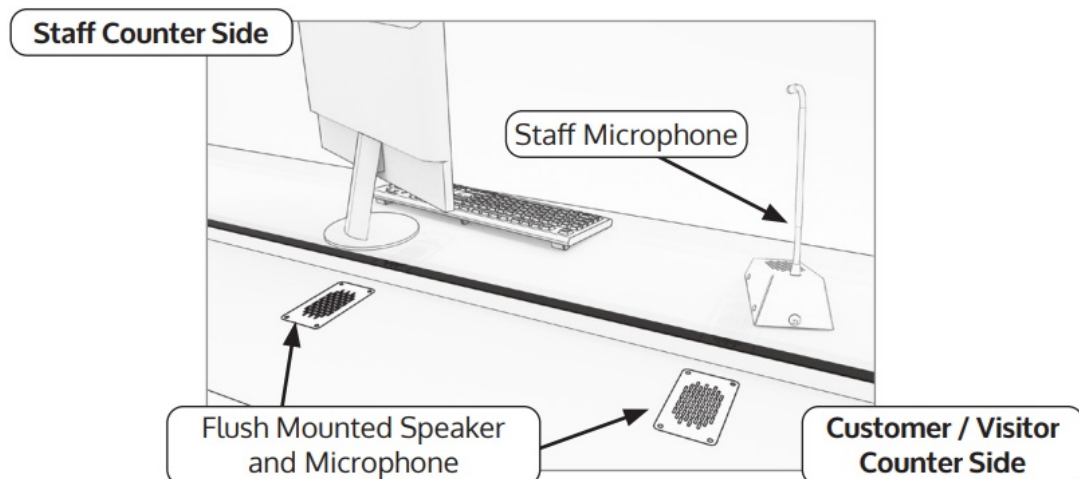
- Adhesive Clip x 10
- No.6 x 1/2" Countersunk Screws x 15
- P-Clips x 6

Connections



Installation Instructions

We recommend that installation is carried out by a qualified engineer, adhering to relevant standards. Check the contents of the box to familiarise yourself with the components.

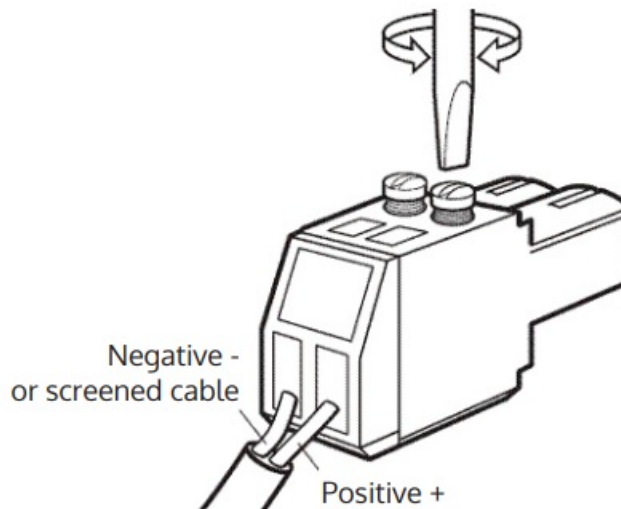


Recommended Tools

A toolkit recommended to install the system will include:

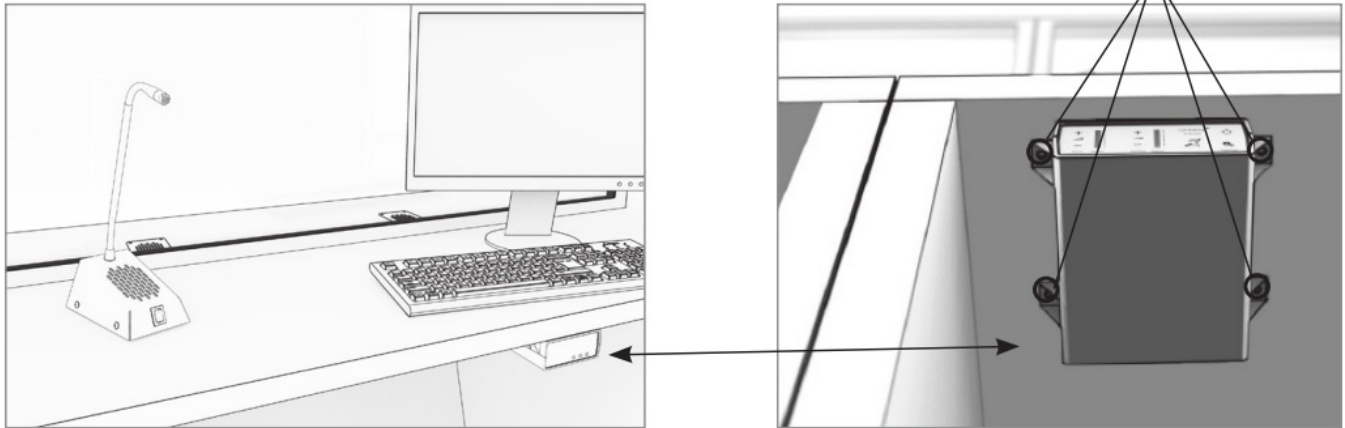
- Screwdrivers (Flat or Blade 2.5mm and Phillips Head PH2)
- Battery or Mains Drill
- Drillbits: 2mm, 3mm, 5mm and 7mm
- Allen Key Set
- Cable Tacking Gun (10mm)
- Wire Cutters/Strippers
- Pliers
- Tape Measure
- Pencil or Marker Pen
- Torch
- Cable Ties
- Electrical Insulation Tape
- Trunking

Trim cables if necessary (excluding the power supply) to the required length to connect to the back of the amplifier. Bare approximately 6mm of the cable ends to connect to the 2 pin plugs.



Speaker & Microphone Kit Installation

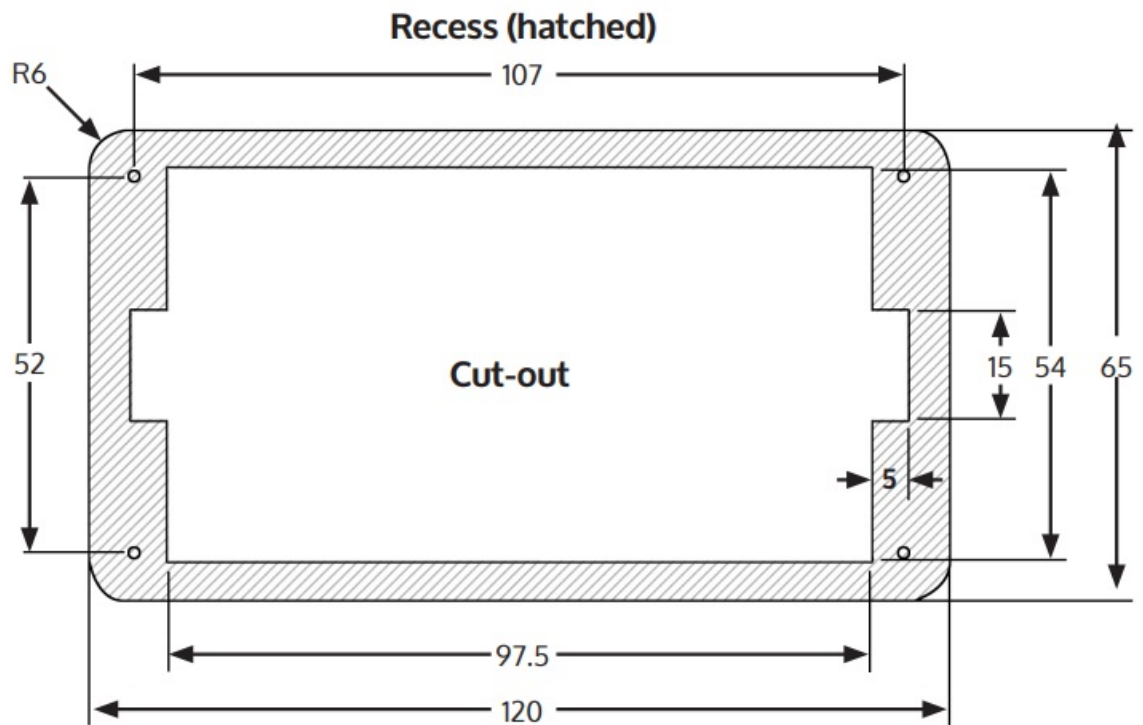
Staff Side Installation



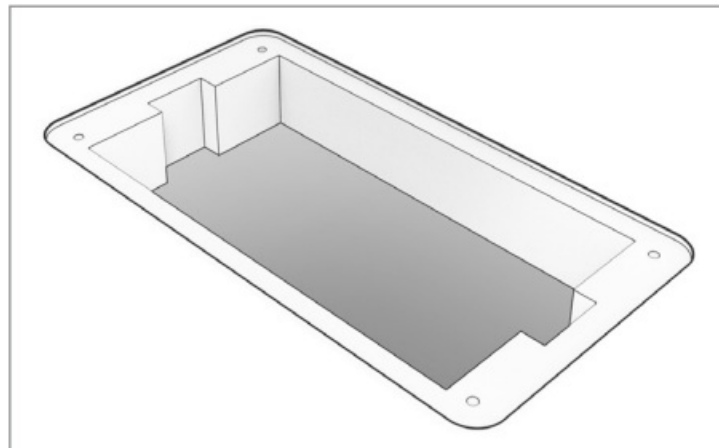
1. Place the staff microphone on the staff side of the counter top, ensuring that it does not cause an obstruction and is as close to staff as possible.
2. Place the amplifier under the staff counter, ensuring that it will not obstruct staff when they are sitting.
3. Mark the four fixing points for the amplifier under the counter.
4. Drill and fix the amplifier in place using the supplied screws.
5. Use a cable management hole to run the staff microphone cable back to the amplifier. If there is not already a cable management hole, drill in a suitable location near the rear of the surface.
6. Install the amplifier's power supply close to a power socket outlet using the supplied mounting bracket and fixing screws.

Customer/Visitor Side Installation

1. Check that there is at least 50mm of free space below the customer side of the counter top for the speaker and microphone pods.
2. Ensure there is access to the wiring under the counter once installed.
3. Mark the cut-out dimensions in the diagram below onto the counter top twice, adjacent to either side of the pass-through tray. The recommended distance between each cut-out marking is 500mm.

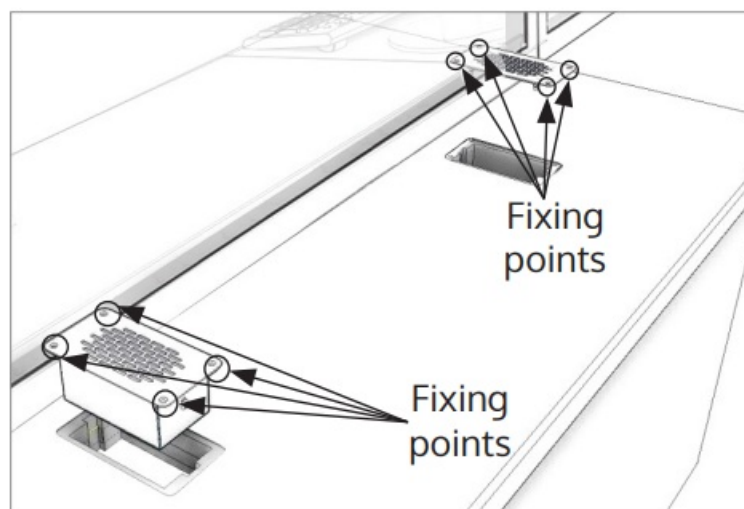


4. Use a router to cut out two areas for the flush mounted speaker and microphone pods, routed to a depth of 1.5mm.



Speaker and microphone pod container cut-out

5. Mark the four fixing points per cut out and drill the holes.
6. Run the cables from the pods through the counter top.
7. Secure both pods to the counter using the screws provided.



8. Avoid loose or trailing cables.

Use trunking or to prevent trip hazards or units being tugged from their position.

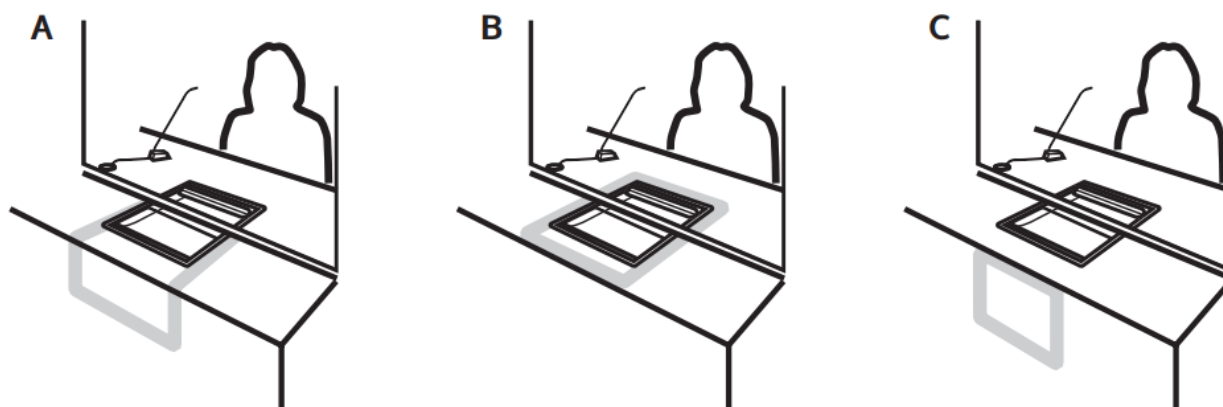
8. Route all the cabling neatly to the amplifier location on the staff side.



Hearing Loop Installation

The aerial should be fixed under the desk-top or counter centrally on the customer or visitor side, one half mounted horizontally under the counter and the other half mounted vertically, facing the customer/visitor (as in the first scenario below).

Position the aerial under the counter using either the provided P-clips or another fixing method of your choice. See the diagram below for recommended positioning.



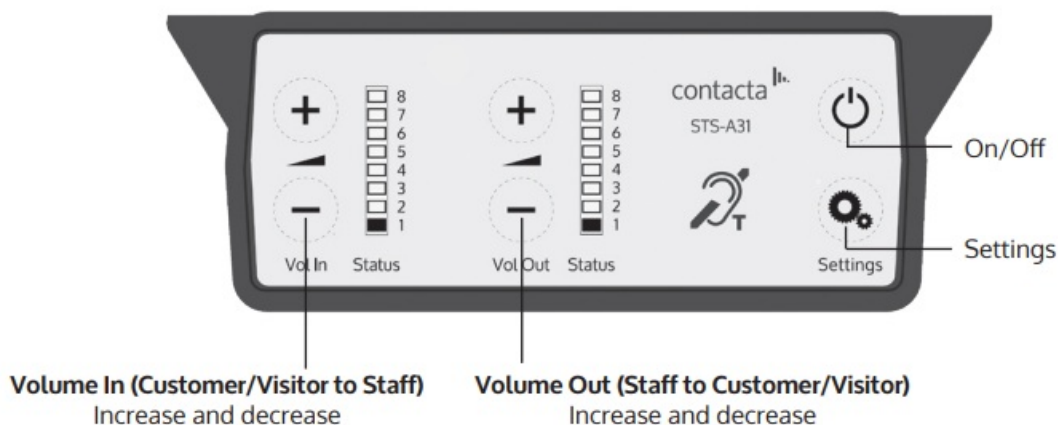
A is the optimum layout for a counter hearing loop.

B and C are acceptable only if A is not possible and the layout is aligned so that the magnetic field will be directed towards user's head heights.

Ensure all hearing loop signage is displayed clearly.

Amplifier Setup

Overview of Front Panel Buttons

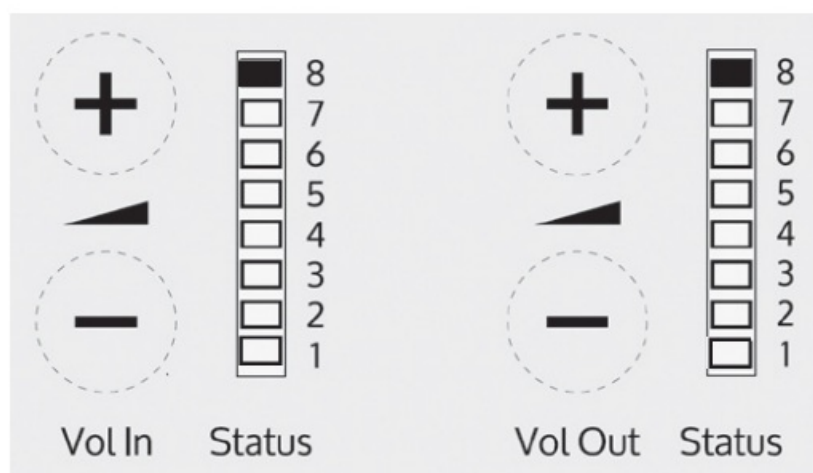


Setup

1. Connect all green plugs to the back of the amplifier, following the locations printed above the sockets (see page 4).
2. Power on the amplifier by pressing the On/Off button.
3. When powered and in normal operational mode the amplifier will display Volume In LED 1 and Volume Out LED 1 as steady green.
4. When the amplifier is switched off, all audio is muted and none of the LEDs are illuminated. Pressing any button will turn the amplifier on again.
5. Adjust Volume In and Volume Out to a comfortable level.
6. Press and hold the Volume In (+) or (-) buttons to increase or decrease the level. The corresponding LED bar will show the volume setting.
6. Ensure the mouse microphones are placed as close to their intended users as possible.
7. Check the amplifier is fully functional by ensuring the red 'fault' light is NOT showing on the front.
8. The Amplifier is now set up.

Our Window Intercom System amplifiers are pre-set to volume levels suitable for nearly all users. Should you need to adjust the Maximum Volume, Ducking or Hearing Loop levels outside of the pre-set amplifier parameters, use Engineer's Mode (see page 13).

Fault Diagnosis LEDs



- Volume In LED 8 will stay red if there is a fault with the staff microphone.
- Volume Out LED 8 will stay red if there is a fault with the customer/visitor microphone.
- Volume In LED 8 will flash red if there is a fault with the loop (e.g. a broken aerial).

Factory Default Settings

To return the amplifier to the factory default settings:

1. Unplug the power supply and then reconnect it.
2. The LED indicators will show a light pattern in the "Vol In" column. This indicates the firmware revision. This will be followed by a green light at the bottom of each column.
3. Within 20 seconds, press the On/Off button and Volume In (-) button together, then release them.
4. The "Vol In" column will again indicate the firmware revision. This indicates that the settings have been restored.

Troubleshooting

Symptom	Possible Fault	Action
There is no power detected through the amplifier (and there is power at the socket).	1) Power jack not plugged in or faulty. 2) Plug fuse has blown. 3) Faulty power supply unit. 4) Faulty amplifier.	1) Check power jack is firmly plugged in. 2) Replace fuse. If it blows again, replace the power supply unit. 3) Replace the power supply unit. 4) Replace amplifier.
The red LED is illuminated on front panel.	1) Constant red LED: Staff or customer/visitor microphone fault. 2) Red LED comes on after speech: Induction loop fault.	1) Ensure microphone is wired correctly and firmly plugged in. Try alternative microphone to ensure port is working. 2) Ensure induction loop connector is wired correctly and firmly plugged in.
I can't hear audio through the induction loop.	1) Induction loop or microphone is disconnected. 2) Loop tester has a fault.	1) Check instructions for correct connections and, if possible, check the hearing device with a known working hearing loop. 2) Ensure loop tester has a new set of batteries.
I can hear interference through speakers (buzzing / whistling / hissing).	1) Unscreened or poorly earthed third party equipment is being used in close proximity. 2) Internal volume gain set to high. 3) Incorrect power supply being used.	1) Switch off any third party equipment to identify the source of interference. 2) Access the amplifier engineers mode to adjust the internal settings. 3) Ensure that our grounded power supply unit is connected.
Amplifier goes into feedback.	1) Internal volume gain set to high. 2) Microphone positioned too close to speaker.	1) Access the amplifier engineers mode to adjust the internal settings 2) Move the microphone to a location further from the speaker.
Unit does not go into power saving mode.	1) Ambient noise in area is too high.	1) Switch off any air con systems, desktop fans and/or computers to reduce ambient noise.

If no action is successful please seek assistance from your distributor or a Contacta installer.

Engineer's Mode

Engineers Mode allows you to adjust the Volume In and Out levels, Ducking levels and Hearing Loop levels to better suit your environment and achieve the best possible performance.



Before entering Engineer's Mode, cycle the power. To do this either:

- Switch the power off at the mains socket and back on again
- Remove the power connector and re-insert it

To enter Engineer's Mode, simultaneously press and release the following buttons within 20 seconds of cycling the power:

- Settings button
- Volume In increase button
- Volume Out increase button

Number 1 LED on the Volume In will flash green to indicate that you are in Engineer's Mode.

The on/off and settings buttons in Engineer's Mode operate as follows:  Move to the next setup area  Save and exit Engineer's Mode

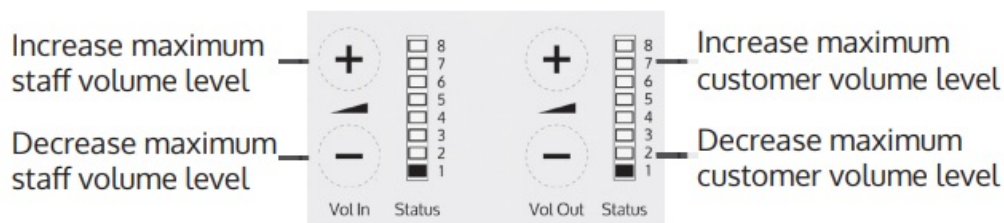
The amplifier will automatically exit Engineer's Mode if no buttons are pressed for 2 minutes.

There are 3 editable setup areas in Engineer's Mode. You will always enter setup area 1 first. The green Volume In LED bar will flash to indicate which setup area you are in.

Setup Area 1:

Maximum Volume Adjustment (LED 1 flashes)

Setup Area 1 allows you to adjust the Volume In and Volume Out levels to further optimise the system for the environment in which it is installed.



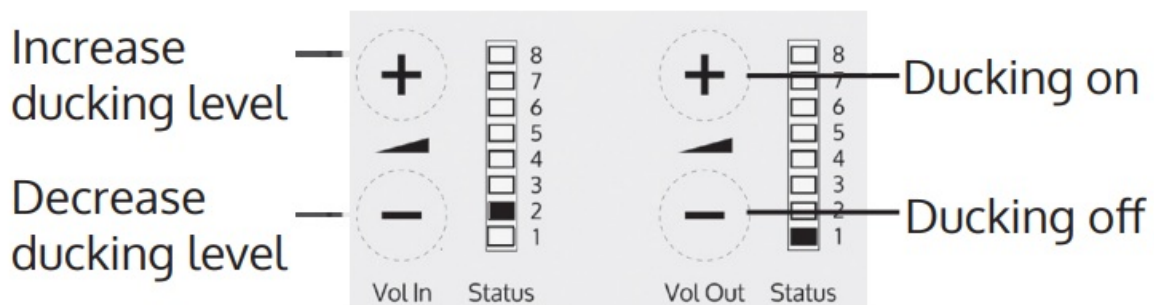
1. Ensure the customer/visitor and staff volumes are turned down.
2. Adjust staff (Volume In) volume to a comfortable level. Press and hold the Volume In (+) or (-) buttons to increase or decrease the level. The corresponding LED bar will show the volume setting.
3. Raise customer/visitor (Volume Out) volume until feedback is heard. Press and hold the Volume Out (+) or (-) buttons to increase or decrease the level. The corresponding LED bar will show the volume setting.
4. Lower customer/visitor (Volume Out) volume until feedback is eliminated.

Setup Area 2:

Ducking Adjustment (LED 2 flashes)

Setup Area 2 allows you to adjust the Ducking level or to turn it on/off.

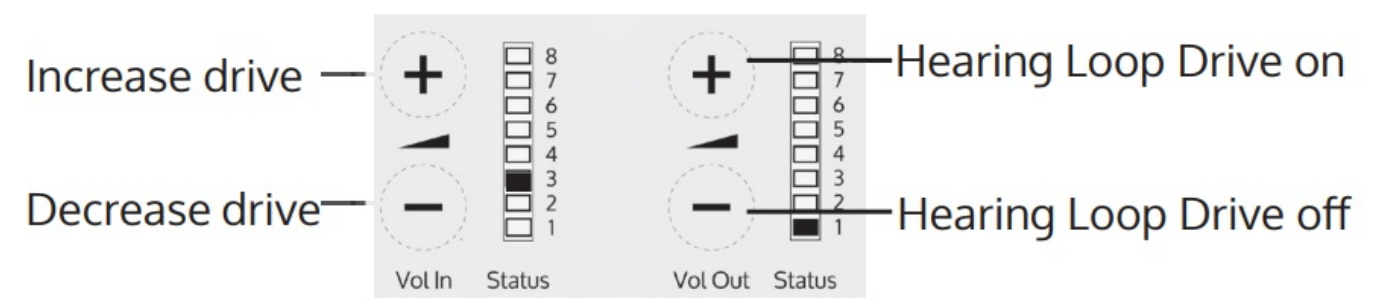
The ducking function is provided to reduce feedback on a window intercom system. Feedback occurs when the overall setting of both volume controls is too high. The ducking system works by detecting which microphone in the conversation is being used, and temporarily reducing the volume setting.



Setup Area 3:

Hearing Loop Drive Adjustment (LED 3 flashes)



Setup Area 3 allows you to adjust the Hearing Loop Drive or to turn it on/off.
Hearing loops improve communication by enabling hearing device users to hear sound sources directly, cutting out background noise.



The drive levels should be adjusted so the red LED 8 is illuminated only when there are peaks in the speech volume.
If the amplifier does not have a loop attached, turn the Hearing Loop Drive off as indicated in the diagram above.





Further information is available on our website and our YouTube channel.

 <small>Window Intercom STS-A31H Amplifier Setup Video</small>	 <small>Window Intercom Unboxing & Positioning Guide Video</small>
https://www.youtube.com/watch?v=gWacpgeCBIA&t=4s	https://youtu.be/9H0sRFj09Rw

www.contacta.co.uk
sales@contacta.co.uk
+44 (0) 1732 223900
Technical Support – Ext 5

Documents / Resources

  <small>Installation & User Guide</small>	contacta STS-K003L Window Intercom System [pdf] User Guide STS-K003L, STS-K003L Window Intercom System, Window Intercom System, Intercom System, System
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References

-  [Innovative assistive technology solutions - Contacta](#)
- [User Manual](#)

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