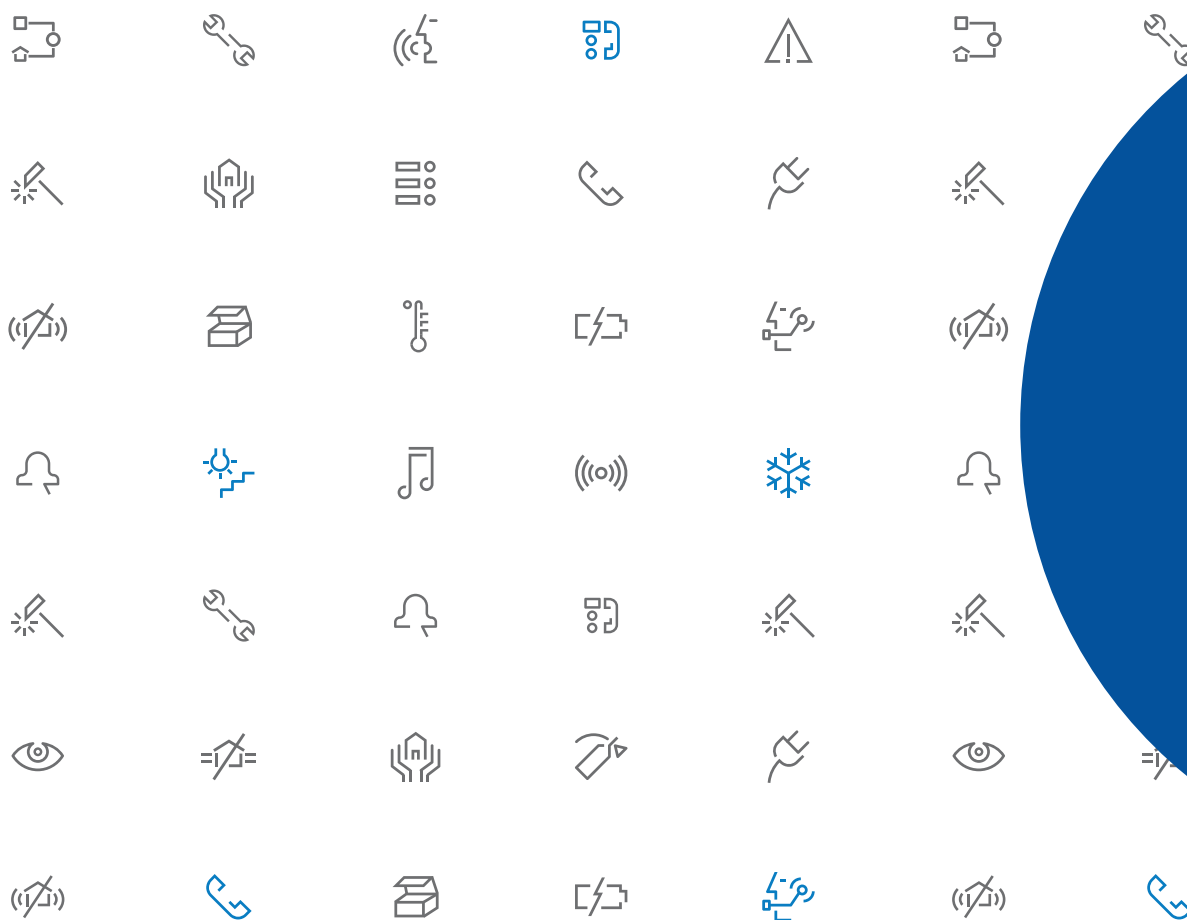




2VOICE INSTALLATION GUIDE



2VOICE 2-Wire non-polarised
audio door entry system

URMET IS IN YOUR LIFE

2Voice digital audio system installation manual

Contents –

Installation

- Entry panel
- Power supply & control equipment
- Distributor
- Signo handset 1183/2

Commissioning

- Connections
- Programming the entry panel
- Adjustments
- Fault finding

Appendix

- Advanced programming
- Additional 2Voice features
- Lock release outputs
- DDA panel mounting information
- DIP switch settings for handsets

Installation

Entry panel

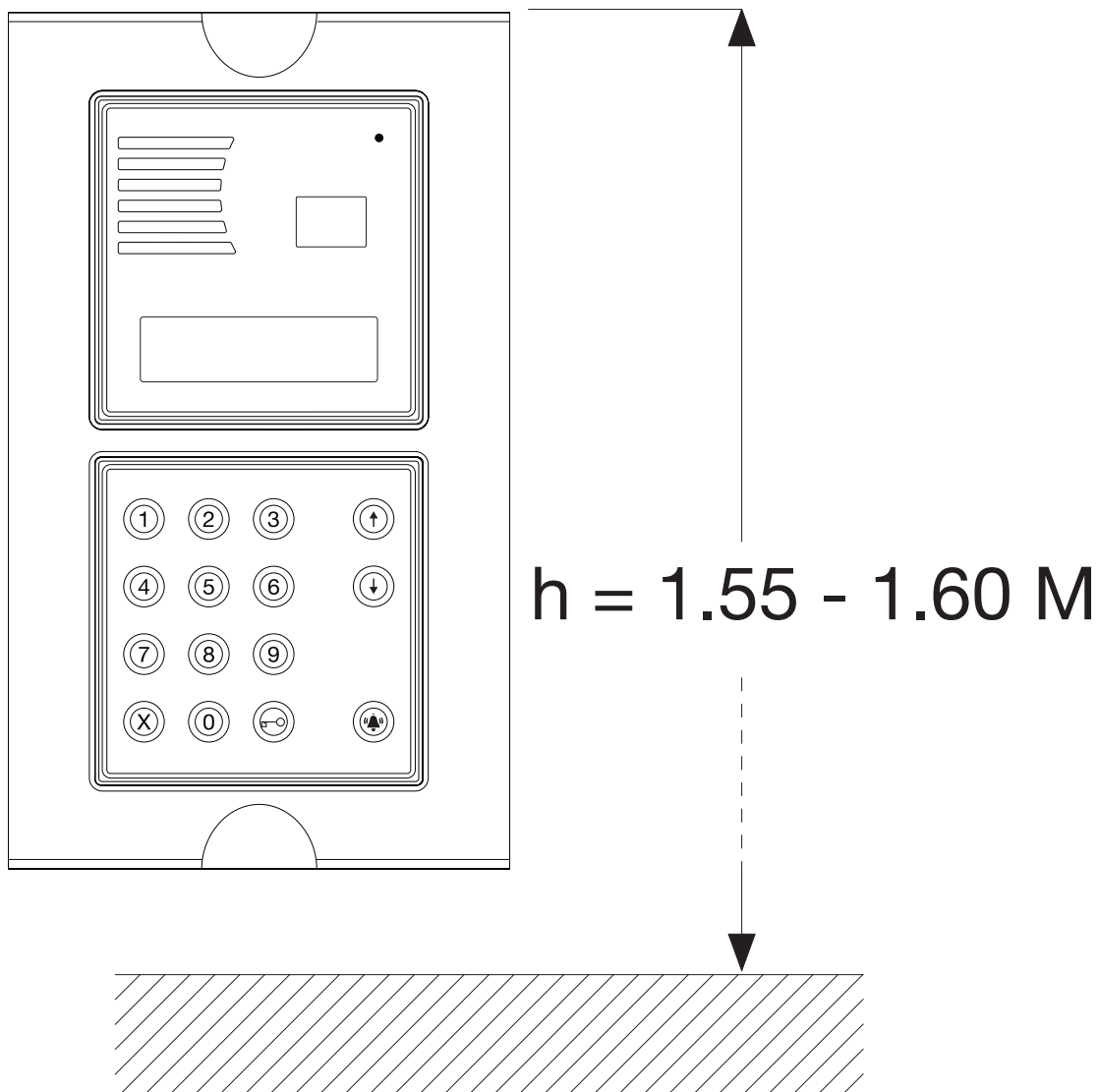
For mechanical fixing details of the entry panel please refer to the product information provided with the Sinthesi or V-Steel back box or surface housing and frames.

Failure to install the entry panel as per the instructions automatically invalidates the product warranty.

Avoid mounting the entry panel in a position where the building structure causes rain water to run directly onto the unit.

Where possible, route cables from below, up into the back box rather than from above down.

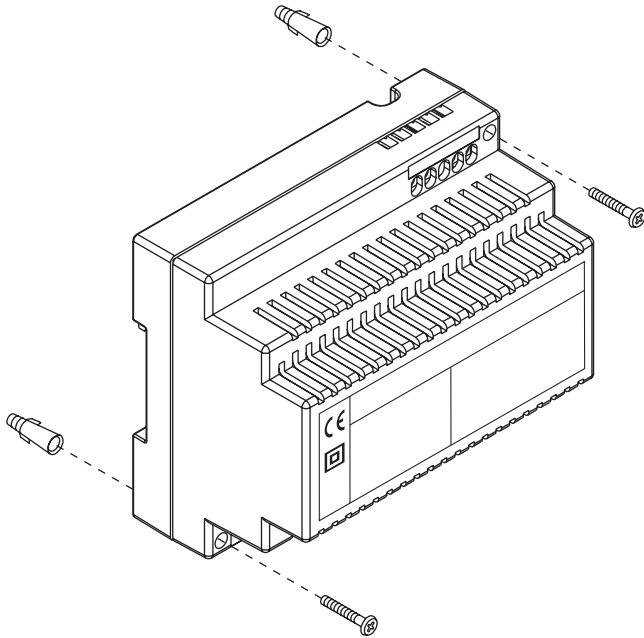
Recommended mounting height –



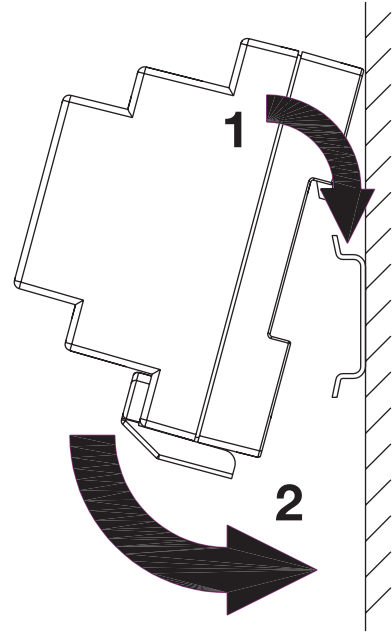
For Disability Discrimination Act (DDA) mounting height information see the appendix.

Power supply/control equipment

Power supplies and control equipment can be mounted on DIN46277 bar or using the screw fixing points provided.



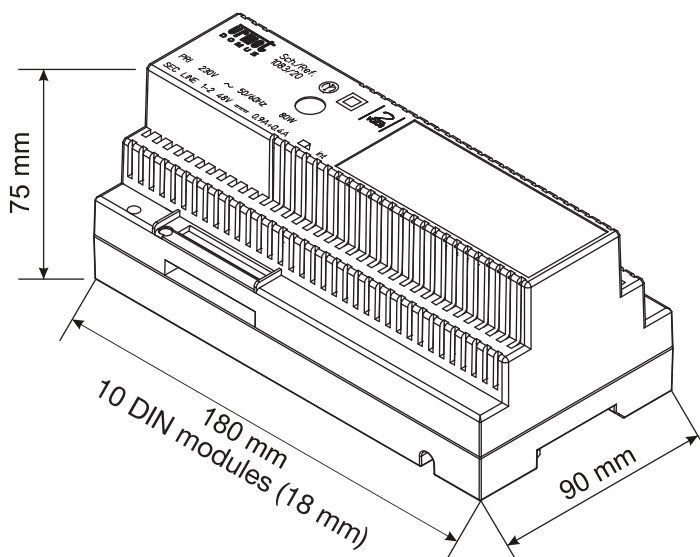
Wall-mounted Installation



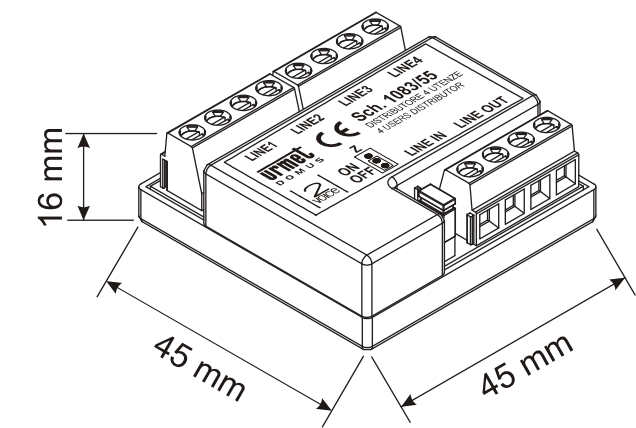
Installation on DIN bar (6 x 18mm modules)

Alternatively the system power supplies and control equipment can be mounted in an Urmet Easycase (lockable metal equipment case specifically designed for door entry systems).

The exact type and quantity of power supplies and control equipment will depend on the size of the system, but as a minimum there will be one 1083/20 Power Supply –

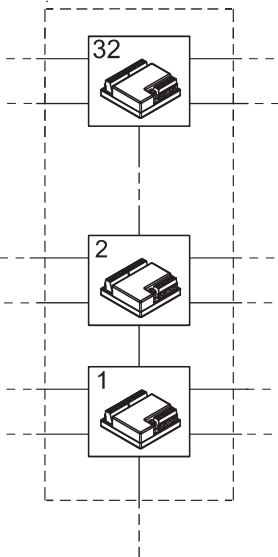


Distributor (1083/55)

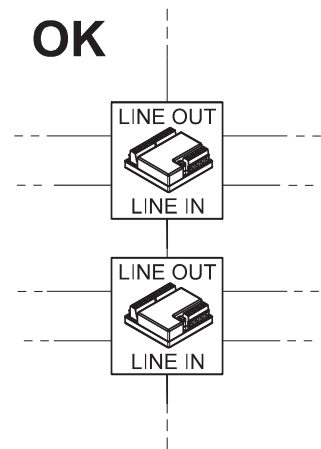


The distributor is used to split the riser cable into the apartments.

It has an input for the riser cable (LINE IN), an output for the riser cable (LINE OUT) and four outputs to apartments (LINE1 to LINE4). Note that LINE OUT cannot be connected to an apartment handset.

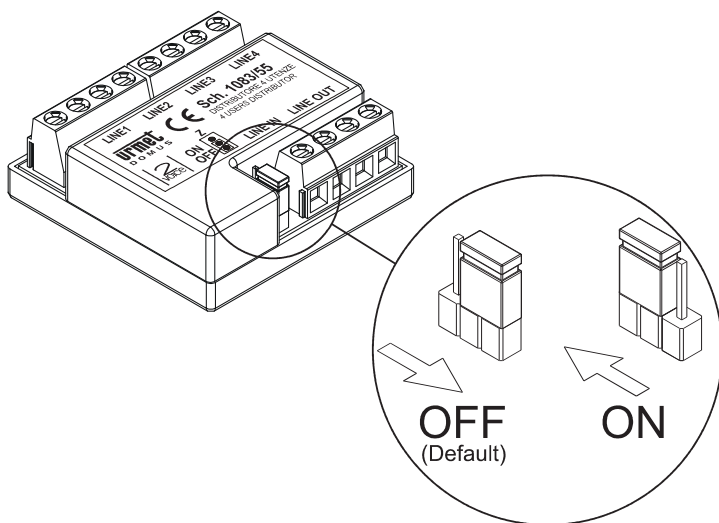


Maximum 32 distributors per riser

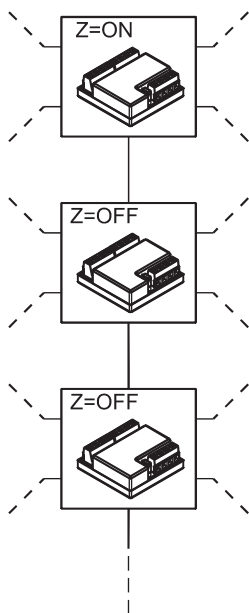


You cannot connect an apartment output (LINE1 to LINE4) to a riser cable input (LINE IN)

The distributor has a termination jumper. The default position of the jumper is OFF.



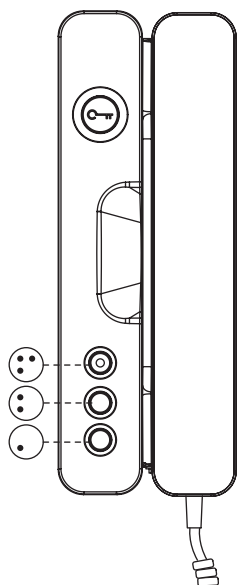
It must be in the ON position on the last distributor in the riser –





The distributor apartment outputs (LINE1 to LINE4) are protected against short circuit. To reset the distributor after a short circuit, remove the short circuit then disconnect LINE IN for a minimum of one minute.

Audio handsets

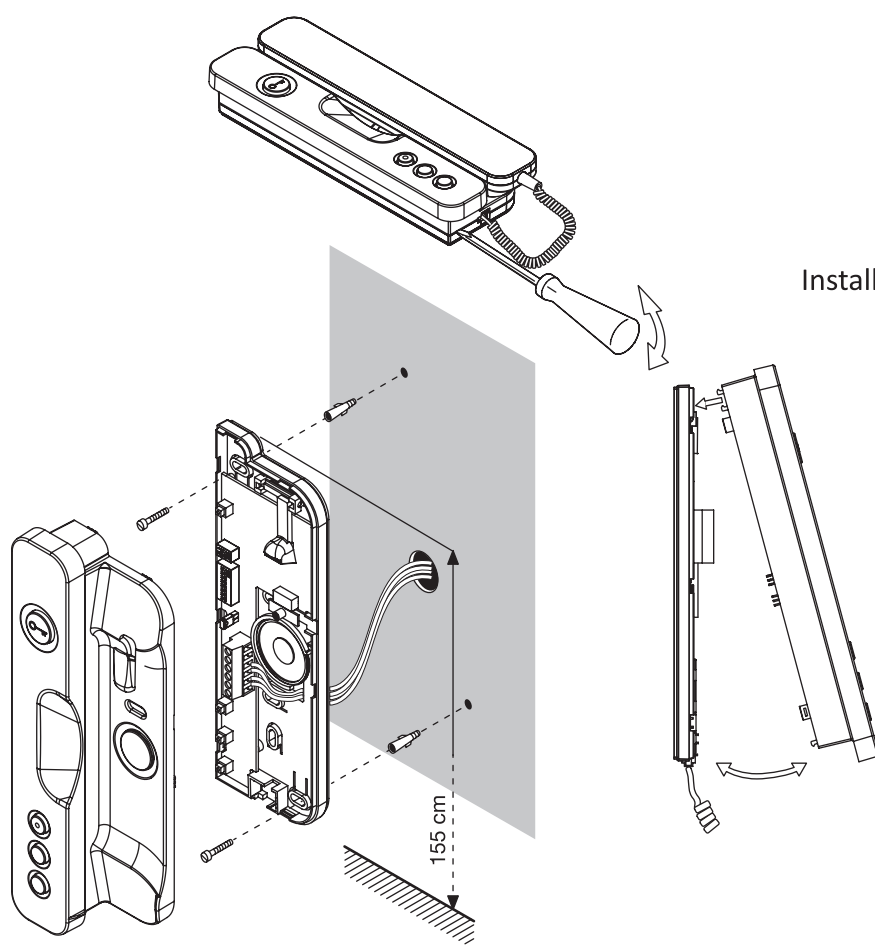
1183/2



The  button energizes the main entry panel lock output.

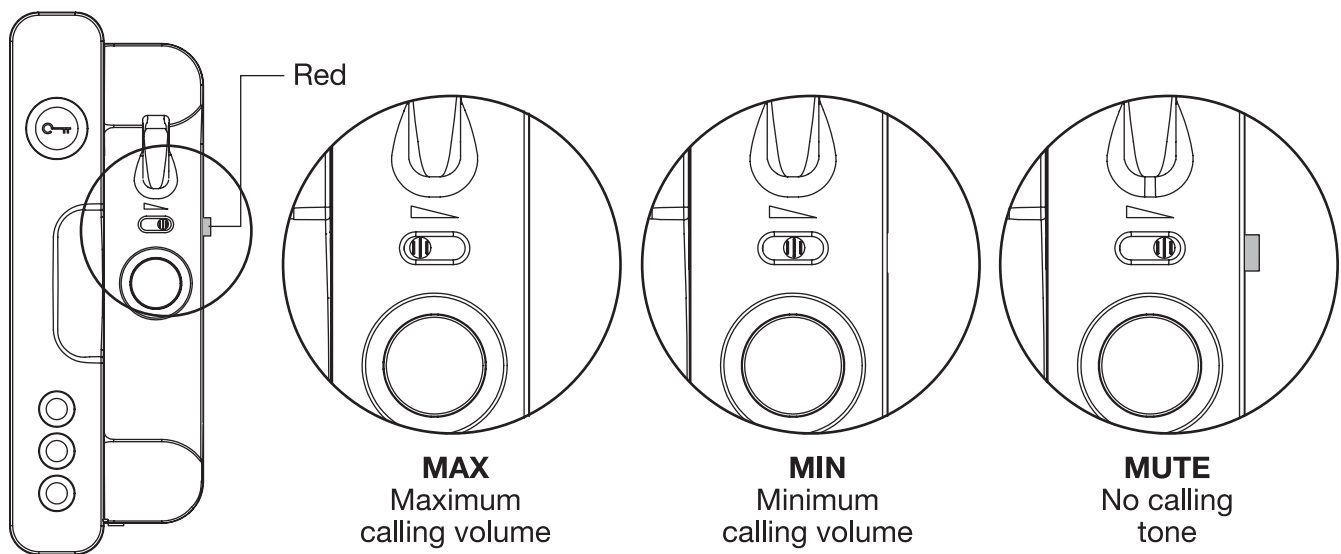
The  button energizes the secondary (normally open relay contact) entry panel lock output.

Buttons  and  are programmable.



Installing the 1183/2 handset

Adjusting the call volume



For further information relating to the 1183/2 handset see the User Guide LBT8373 supplied with the handset.

Commissioning

Connections

1. Connect the handset as per the supplied diagram* and set the DIP switches – See pages 26 & 27 of the appendix for DIP switch diagrams.

DIP switch settings for handsets –

Each apartment within a block MUST have a different code (between 0 and 127) set by the DIP switches in the handset.

Where there is more than one handset in an apartment, all the handsets in the apartment must have the same code (A 2-way DIP switch sets the code within the apartment – see Page 24 for an example)

DIP switch 1 must always be off and the apartment code is set using switches 2-8.

If the apartment numbers (postal addresses) are between 1 and 127 then set apartment 1 DIP switches as per the diagram for USER1. Set apartment 2 DIP switches as per the diagram for USER2 and so on.

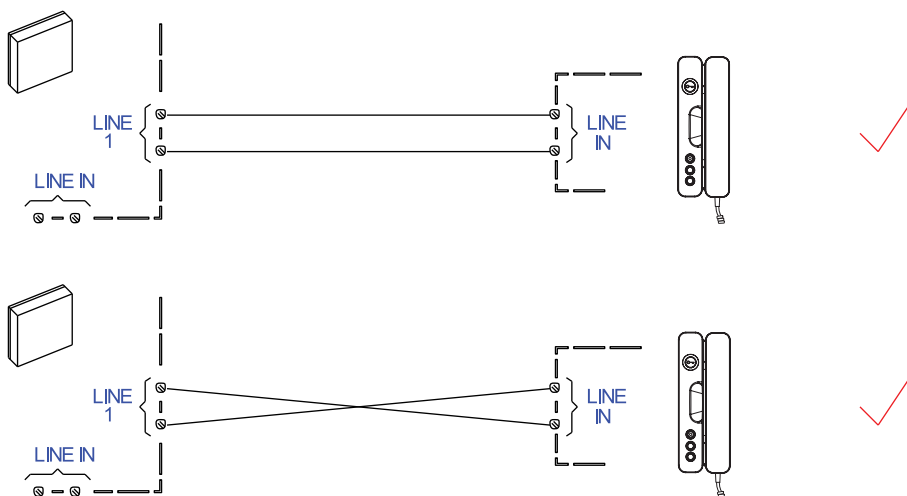
If the apartment numbers are not between 1 and 127 for example a block where there are 48 apartments numbered 225 to 273, then set apartment 225 as per the diagram for USER1, 226 as per the diagram for USER2 and so on. In this case see Advanced Programming on Page 17

2. Connect the distributors (1083/55) as per the supplied diagram* and set the jumper.
3. Connect the power supply (1083/20) and any other control equipment as per the supplied diagram*.
4. Connect the entry panel as per the supplied diagram* and program via the entry panel keypad
See Page 11-14
5. Test each apartment and make any final adjustments such as speech volume.

***There are sample connection diagrams included with each piece of equipment, however you should have been provided with a connection diagram that is specific to your installation. Follow any specific instructions on the diagram regarding programming and settings. The diagram will have a Drawing number in the format UD01234. If you do not have this diagram please contact Urmet Technical Support before installing the equipment.**

Installation notes -

- All of the 2Voice connections are non-polarised. They can be connected either way round –



- Never 'double up' cores to increase the conductor size –



- Only untwist pairs as far as is necessary to make the connection –



- Do not leave cables connected to the 2Voice system at one end and un-terminated at the other end –



Programming the entry panel

When the entry panel is first powered the default language is Italian. The display will show –

DIGITARE CODICE
PREMERE 🔔

To change the language from Italian to English press 99999. The display will show –

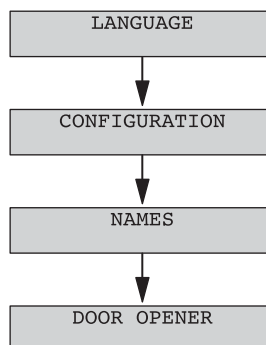
PASSWORD
—

Enter 1000 (which is the default password) then press 🔔. The display will show –

Press 🔔. Use the ⬆ button to select ENGLISH. Press 🔔. The display will show –

LANGUAGE

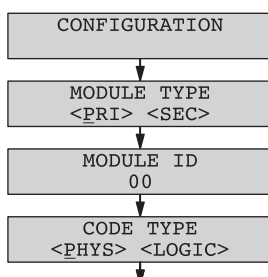
Now use the ⬆ and ⬇ buttons to scroll the top level menu which looks like this –

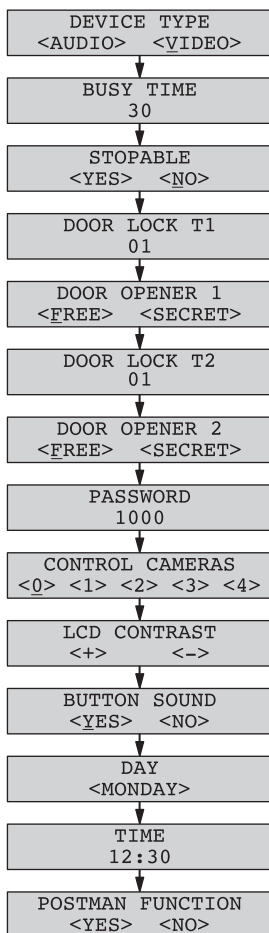


From any sub-menu, press and hold **X** to return to the top level menu. From the top level menu, to exit programming altogether press **X**.

Now select **CONFIGURATION** and press 🔔.

The **Configuration** menu looks like this –





MODULE TYPE <PRI> <SEC>

PRI and SEC are abbreviations for Primary and Secondary. Imagine an installation where there are two blocks of apartments; 1-50 and 51-100. Each block has an entry panel on the front of the building which only calls apartments in that block. There is also a car park entry panel which calls all apartments 1-100. The car park panel must be programmed as PRI (Primary) and the panels at the blocks must be programmed as SEC (Secondary).

If you have only one entry panel it is a primary panel.

The default setting is PRI. This can be changed using the or buttons. Confirm your selection using .

If you have Secondary panels in your installation, see Advanced Programming in the Appendix

MODULE ID 00

Module ID means entry panel number. For Primary panels it must be 00, 01, 02 or 03 as the maximum number of Primary panels in 2Voice systems is four. You cannot have two panels with the same number.

The default setting is 00 and if you only have one Primary panel just press to move to the next step.

If you need to change from 00 to 01 because you have two panels for example, first press **X** then enter 01 and press

CODE TYPE <PHYS> <LOGIC>	For systems where the apartment numbers are between 1 and 127 you must use PHYS (Physical) code type. The default setting is PHYS . If the apartment numbers in your system are between 1 and 127 press to move to the next step. If your apartment numbers are not in this range see Advanced Programming in the Appendix
DEVICE TYPE <AUDIO> <VIDEO>	The default setting is VIDEO . Use the and to select AUDIO and press . (For systems where the panel has a camera but the apartments have audio handsets and view the camera on the TV, select AUDIO)
BUSY TIME 30	This is the time during which a conversation cannot be interrupted by another call. The default setting is 30 (seconds) and it is suggested to accept this time by pressing and move to the next step.
STOPABLE <YES> <NO>	With the 2Voice system it is possible from within an apartment to view external cameras, view recorded messages and make calls to other apartments. If you would like calls from the entry panel to interrupt these functions choose YES and press otherwise press and move to the next step.
DOOR LOCK T1 01	This is the door release time. To change the time to 8 seconds for example press X then enter 08 and press . The release time can be from 1 (01) to 90 seconds.
DOOR OPENER 1 <FREE> <SECRET>	SECRET means that an apartment must first be called before they can release the door. FREE means that an apartment can release the door without first being called. Choose as required and press .
DOOR LOCK T2 01	A secondary release output is available (Common and normally open contact) which is generally used to trigger automatic gates. T2 is the activation time of this relay. The default time is 1 second. To alter this time first press X then enter the required time for example 03 for 3 seconds and press . The release time can be from 1 (01) to 90 seconds.
DOOR OPENER 2 <FREE> <SECRET>	SECRET means that an apartment must first be called before they can release the door (for example). FREE means that an apartment can release the door without first being called. Choose as required and press .
PASSWORD 1000	Choose any number between 1000 and 9999 and press . Note that if the password is forgotten the panel must be reset to factory default and re-programmed.
CONTROL CAMERAS <0> <1> <2> <3> <4>	If you have no remote CCTV cameras connected to the entry panel choose 0 and press . Otherwise choose the number of remote cameras and press .
LCD CONTRAST <+> <->	Use and buttons to adjust as required and press .
BUTTON SOUND <YES> <NO>	Choose YES or NO to switch on or off the entry panel button sound as required and press .
DAY <MONDAY>	Use and buttons to select the day and press .
TIME 12:30	To change the time first press X then enter the time in 24-hour format and press .
POSTMAN FUNCTION <YES> <NO>	It is possible to use the button for timed TRADES access. If you want to use this function select YES and press . The default setting is NO. If you are not using the TRADES function press . If you are using the TRADES function see <i>Advanced Programming</i> in the Appendix

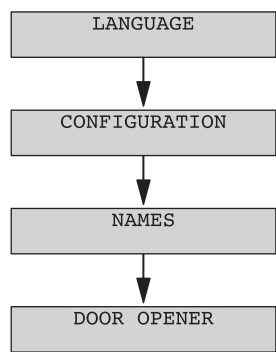
After you have returned to the

CONFIGURATION

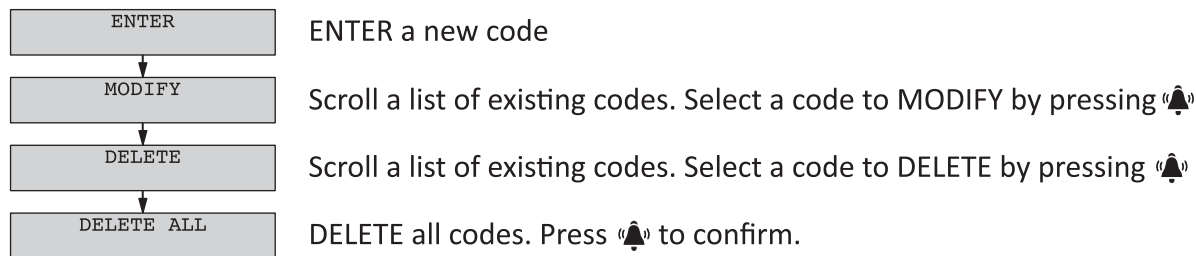
 screen press **X** to exit from the programming.

To enter a code to open the door –

From the top level menu –



use the and buttons to select and press .



Use the and buttons to select and press .



Enter a 4-digit code and press .

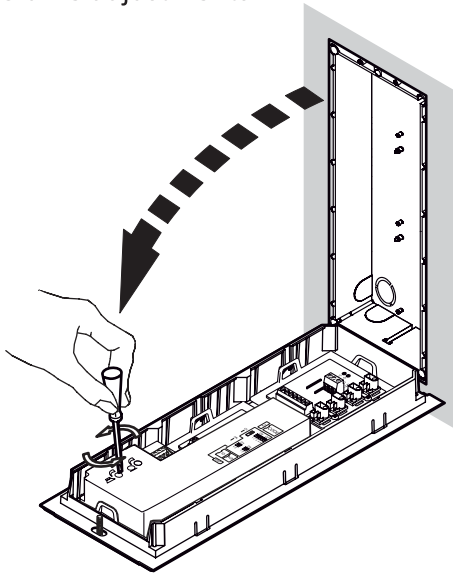
Note – Codes between 0001 and 4999 will open the main door lock release. Codes between 5000 and 9999 will open a second (for example vehicle) gate, where applicable.

To exit the DOOR OPENER menu press and hold **X**. To exit programming altogether press **X**.

To open the door press then the code then

Adjustments

Volume adjustments



In most cases the factory volume settings are adequate but the entry panel speaker and microphone can be adjusted if required.

Fault Finding

No Call, No speech (either one way or both directions)

Use the following information for individual handset faults ie other handsets in the system work ok.
Where the same fault is present on all handsets follow the Fault Finding Flowchart.

In this order -

Check that the handset is not set to 'mute' – see the user instructions for the handset.

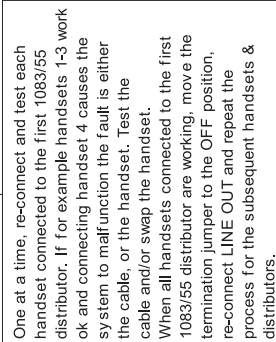
Check that the DIP switches have been set correctly and that the termination jumper is on.

Measure DC volts at the LINE X connection of the 1083/55 distributor where the handset in question is connected. The reading should be between 38V and 48V DC. If it is not then disconnect the LINE X connection, wait two minutes and re-measure DC volts at the LINE connector. If the voltage is now correct, the fault is either the cable or the handset.

Swap the handset for a known working handset

At the 1083/55 distributor, disconnect the LINE X connection where the handset in question is connected. Take the handset from the apartment and connect on a new short piece of cable directly to the distributor.

The guide assumes that all DIP switches and jumpers have been set correctly. Check first.



Advanced Programming

Programming systems where the apartment numbers are not between 1 and 127

- From the

CODE TYPE
<PHYS> <LOGIC>

 screen use the ↑ or ↓ button to select <LOGIC> and press
- Press and hold **X** to return to the

CONFIGURATION

 screen
- Press ↓ and at the

NAMES

 screen press
- At the

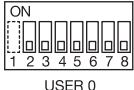
ENTER

 screen press
- At the

NAME:

 screen enter the number of the first apartment, for example if the apartments are numbered 200 to 250 then enter **200** and press . (Use **X** to correct mistakes).
- At the

PHYSICAL CODE:

 screen, enter the number set on the DIP switch in the first apartment which should be 00000  and press .
- At the

LOGICAL CODE:

 screen, enter the apartment number, in this example **200**, and press

In this example the next apartment would be 251;

At

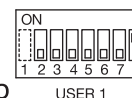
NAME:

 enter **251**

At

PHYSICAL CODE:

 enter **0001**. DIP switches in the apartment set to



At

LOGICAL CODE:

 enter **251**

- You will now see


DOOR OPENER CODE






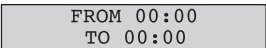


. If required each apartment can have their own code to open the door. If you would like to enter a Door Open Code enter the number here. The code must be four digits and can be between 0001 and 4999. You can also use a different code for the auxilliary release output (for automatic gates for example). This code must be four digits and can be between 5000 and 9999. If you do not want to associate a code to an apartment press .
- You will be back at the

NAME:

 screen. You can either continue programming or press and hold **X** to finish programming.

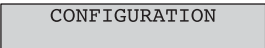

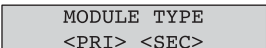

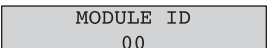



Programming TRADES times –

It is possible to use the  button to open the door during pre-defined time periods.

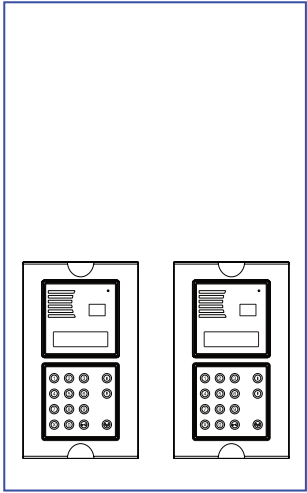
- From the  screen use the ↓ button to scroll to  and select YES then press .
- You will see . If you want the TRADES function to work on Mondays select YES and press .
- At the  screen press **X**.
- Using the 24 hour format, enter the time you want the TRADES function to work, for example if you want the  button to open the door between 7 o'clock and 8 o'clock in the morning enter 07.00 08.00 and press .
- Continue for the other days of the week.
- Press and hold **X** to finish programming.

Programming Secondary entry panels –

The 2Voice system can have up to four Primary entry panels (panels that call all apartments in the system) and up to thirty two blocks of apartments each with up to two Secondary entry panels (panel that only call a particular group or block of apartments).

- To program Secondary entry panels, from the  screen press .
- At the screen  use the ↑ or ↓ button to select **SEC** and press .
- At the  screen, press **X** then enter the two-digit code and press . Use the drawing below for guidance.
- At the  screen use the ↑ or ↓ button to select **0** or **1** and press . Use the drawing below for guidance.
- If there is only one Secondary panel choose **0**.
- Press and hold **X** to finish programming.

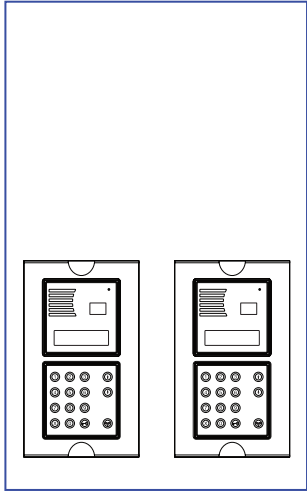
First Block



Secondary panel
MODULE ID 00
SECONDARY 0

Secondary panel
MODULE ID 00
SECONDARY 1

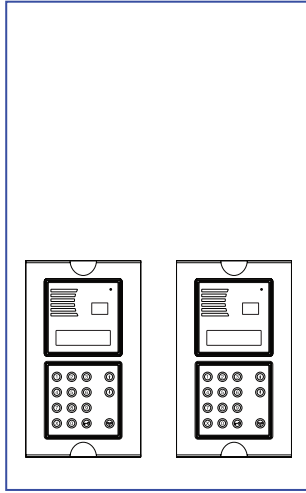
Second Block



Secondary panel
MODULE ID 01
SECONDARY 0

Secondary panel
MODULE ID 01
SECONDARY 1

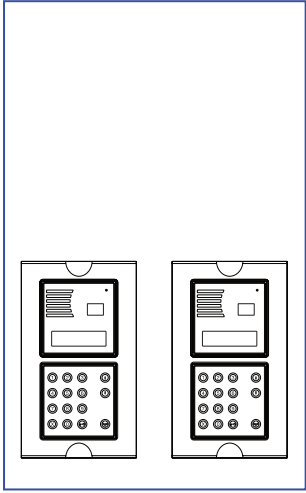
Third Block



Secondary panel
MODULE ID 02
SECONDARY 0

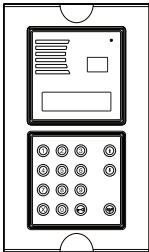
Secondary panel
MODULE ID 02
SECONDARY 1

Thirty First Block

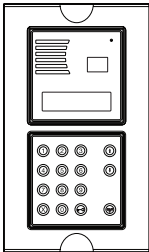


Secondary panel
MODULE ID 31
SECONDARY 0

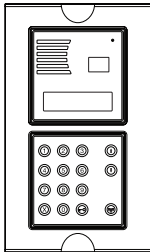
Secondary panel
MODULE ID 31
SECONDARY 1



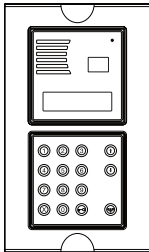
Primary panel
Code 00



Primary panel
Code 01



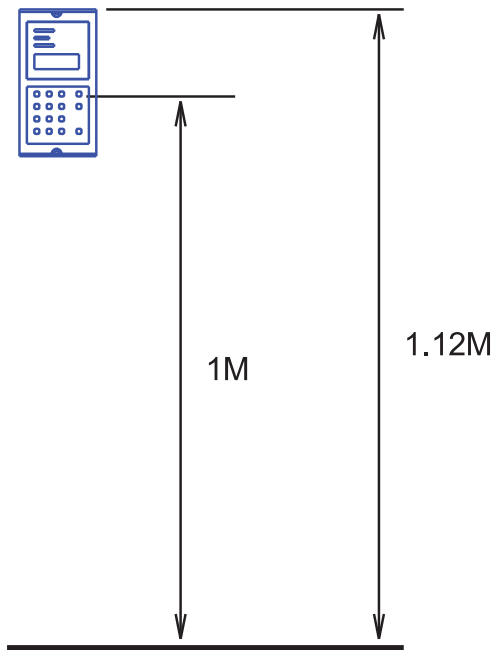
Primary panel
Code 02



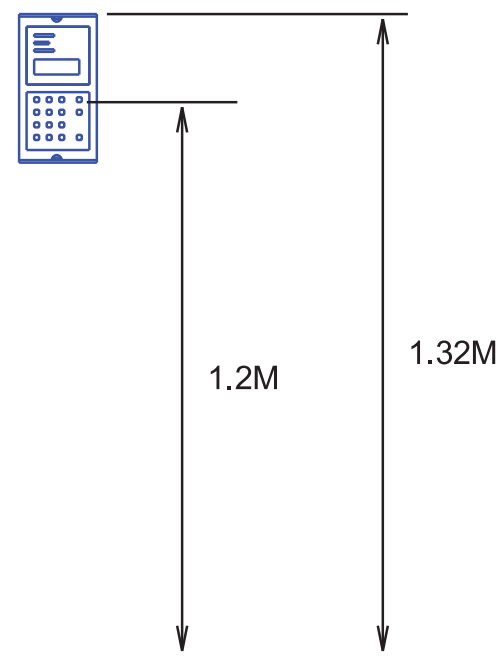
Primary panel
Code 03

Mounting heights for DDA requirements –

British Standard BS8300 6.6 for access control systems refers to the 'activation pad' height of between 900mm and 1050mm. The top of the back box or surface housing should therefore be at 1.12M



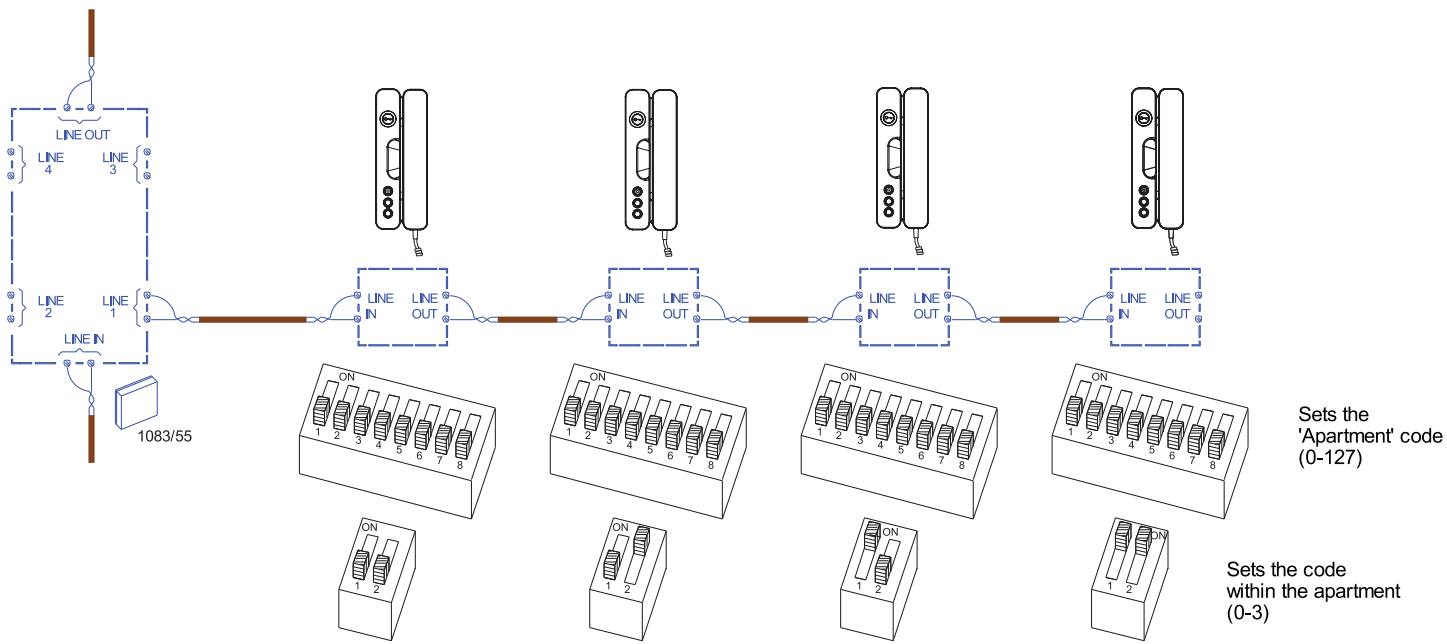
The Wheelchair Housing Design Guide (WHDG) refers to a height of 1200mm to the highest function. The top of the back box or surface housing should therefore be at 1.32M



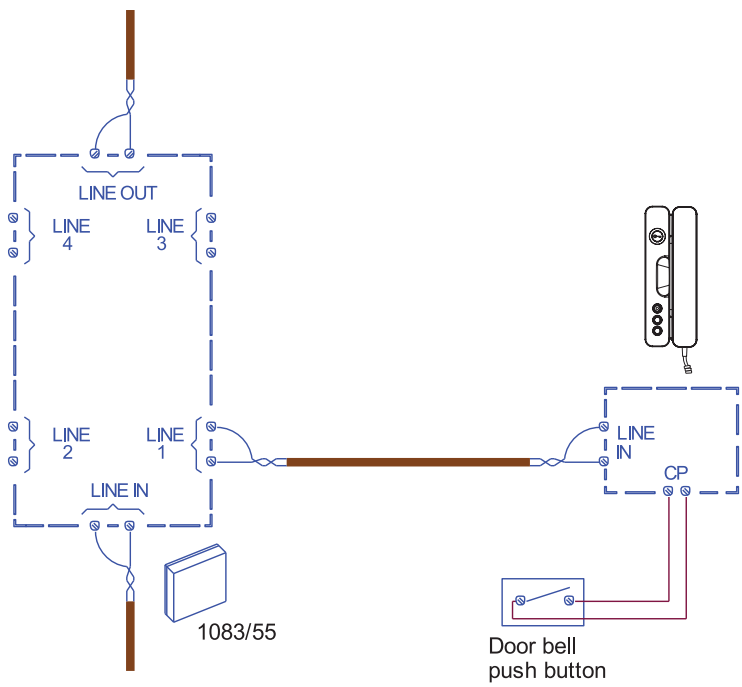
Additional 2Voice features

Four handsets in one apartment

Up to four handsets can be installed within an apartment with no additional equipment –



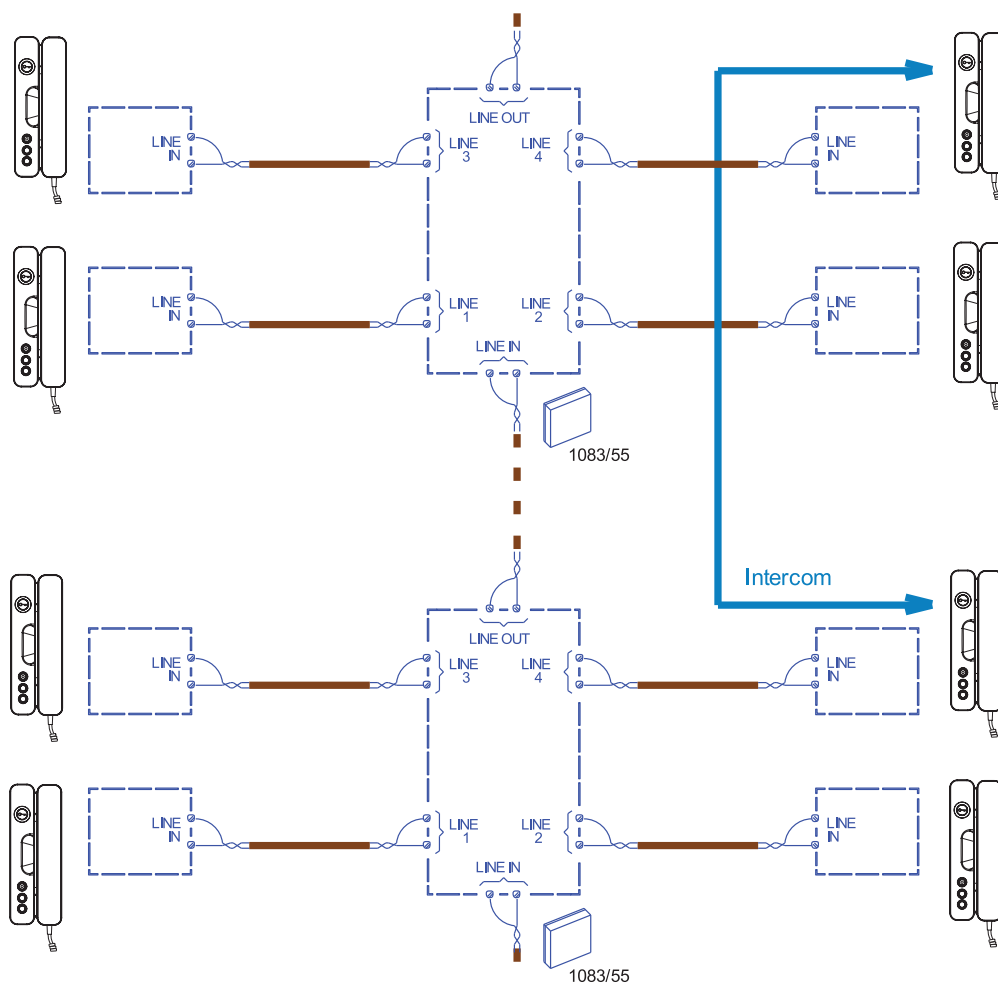
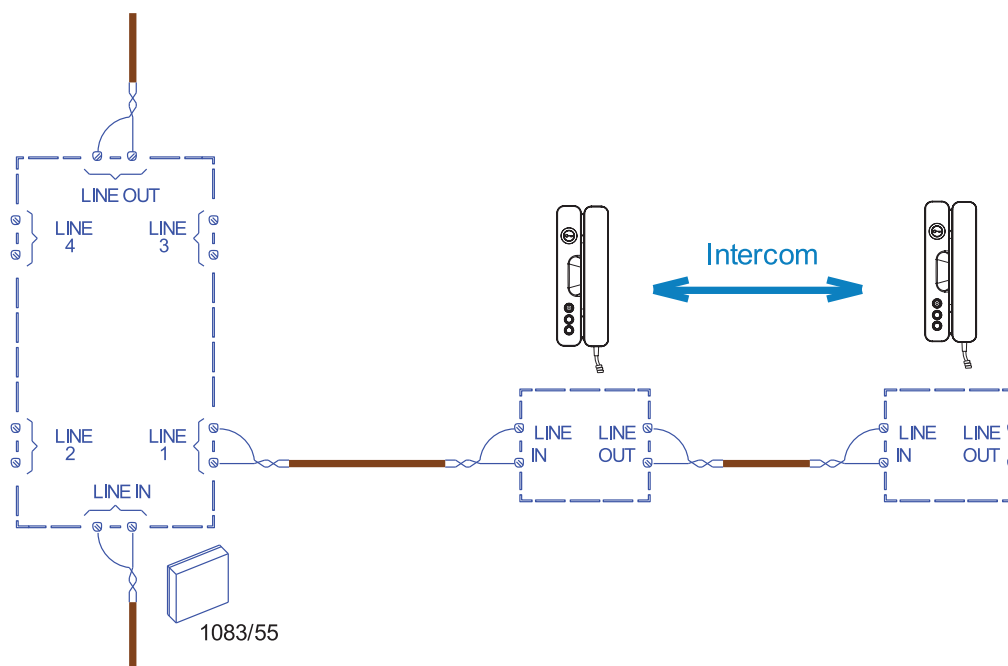
Door bell



The apartment door bell push button can be connected directly to the CP terminals of the handset.

Intercom


Without any additional equipment it is possible to call from one handset to another (intercom) either within the same apartment or from one apartment to another. For further details see the full *2Voice* Technical Manual MT124-027, the User Guides supplied with the handset, or call Urmet Technical Support.

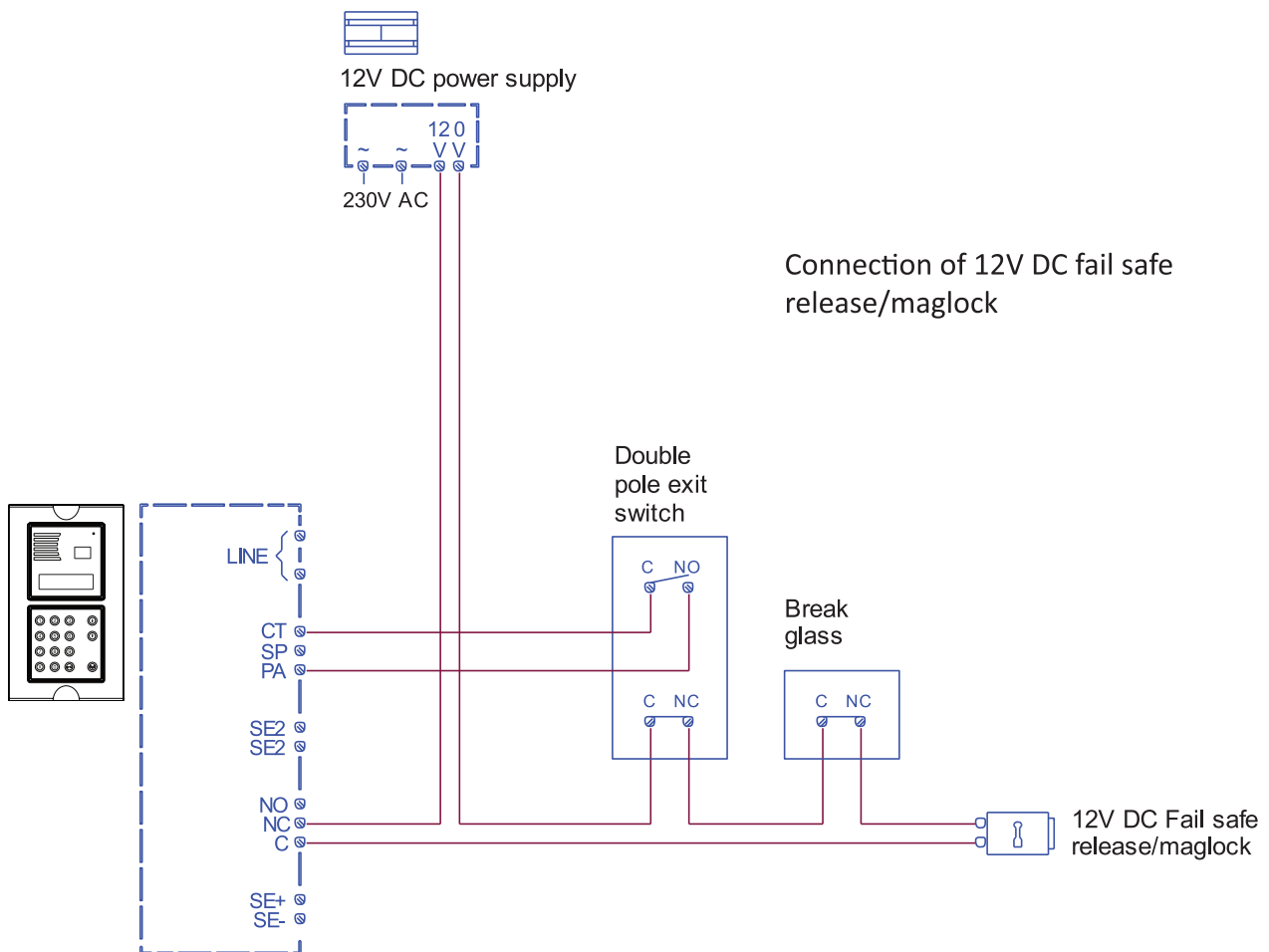


Lock release outputs


The 2Voice digital entry panel has three outputs for controlling electric releases/magnetic locks and automation equipment –

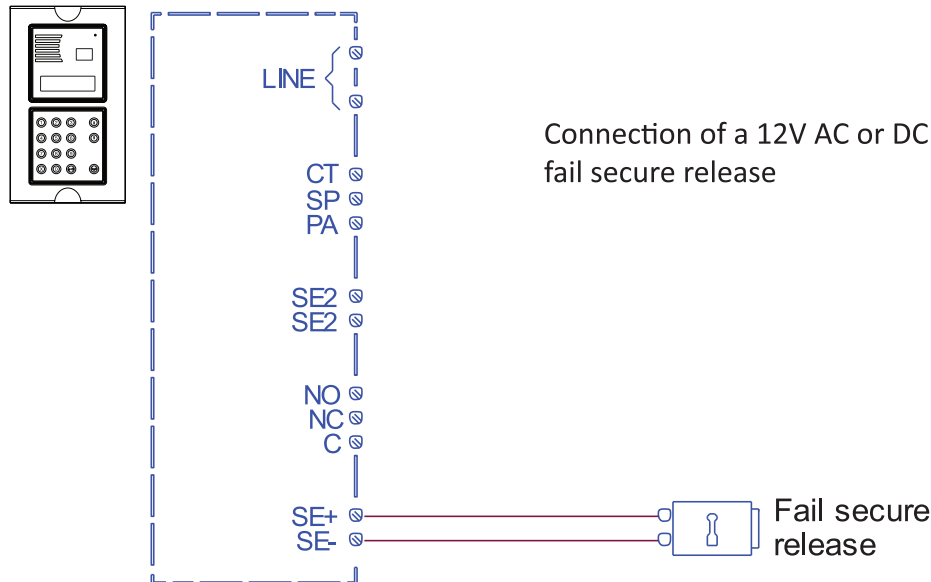
1. Time programmable relay output (C, NO & NC)

C } Volt free clean contact output.
NO } Triggered by pressing the  button on the apartment handset.
NC } The relay time can be programmed from 1 to 90 seconds.




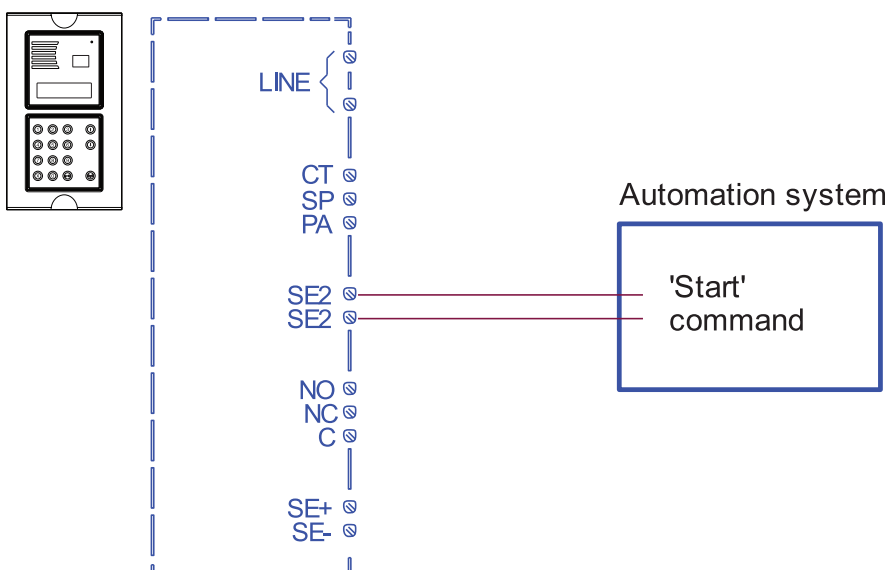
2. Direct connect for fail secure releases (capacitance discharge).

- SE+ } Capacitance discharge output.
 SE- } Triggered by pressing the  button on the apartment handset.
 The relay time can be programmed from 1 to 90 seconds. This output can be connected directly to **fail secure** electric releases (12V @ 600mA/24V @ 300mA)

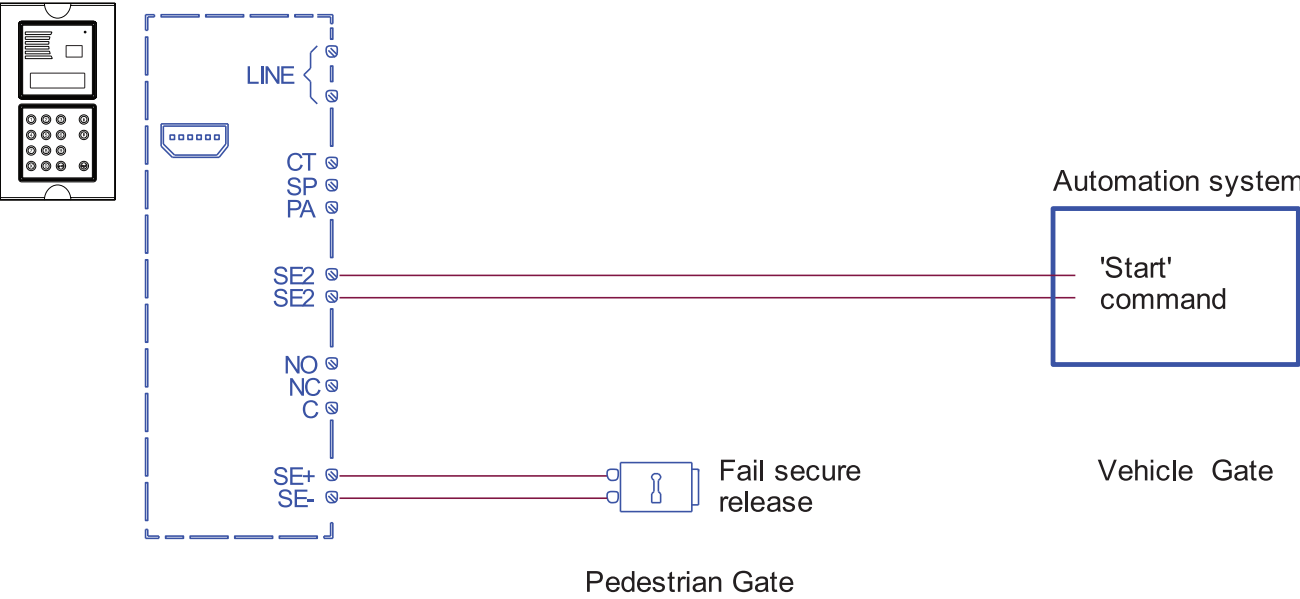


3. Secondary volt free clean contact output. Normally open.



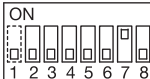
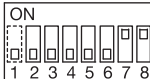
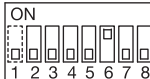
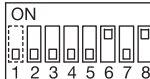
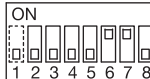



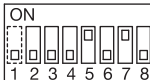

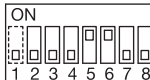
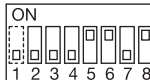

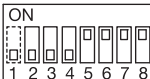
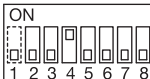
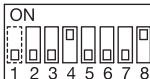
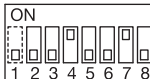
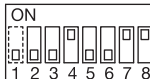
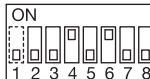


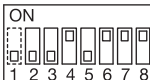
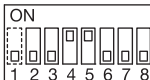
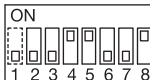
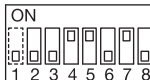
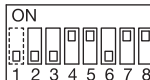


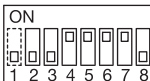
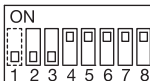
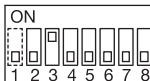
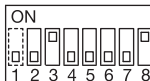
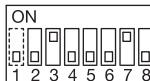


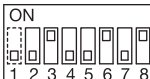
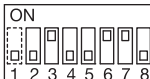

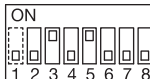

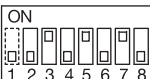






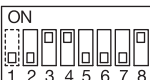

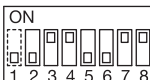
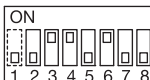
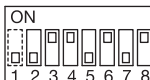
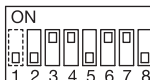
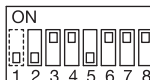
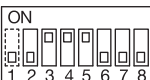
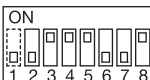
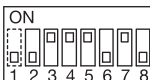
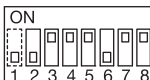
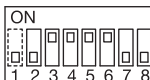
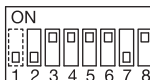
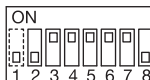
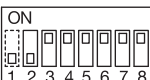
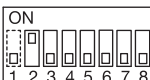
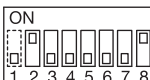
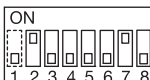
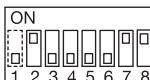
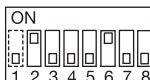
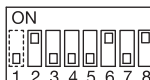
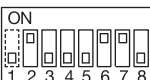
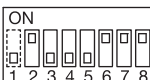
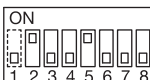
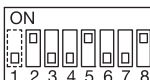
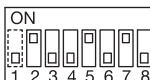
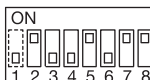
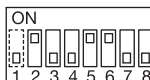

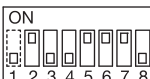
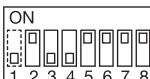
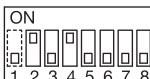
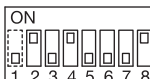
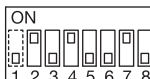
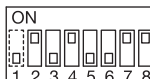

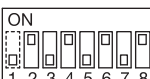
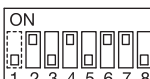
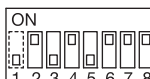
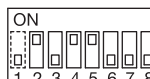
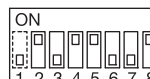

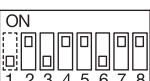
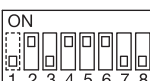
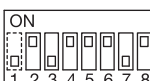
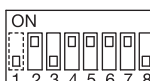
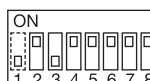





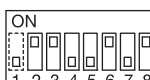



- SE2 } Triggered by pressing the auxiliary button  on the apartment handset.
 SE2 } The relay time can be programmed from 1 to 90 seconds.
 This output is typically used to trigger automation equipment for example for an automatic gate.

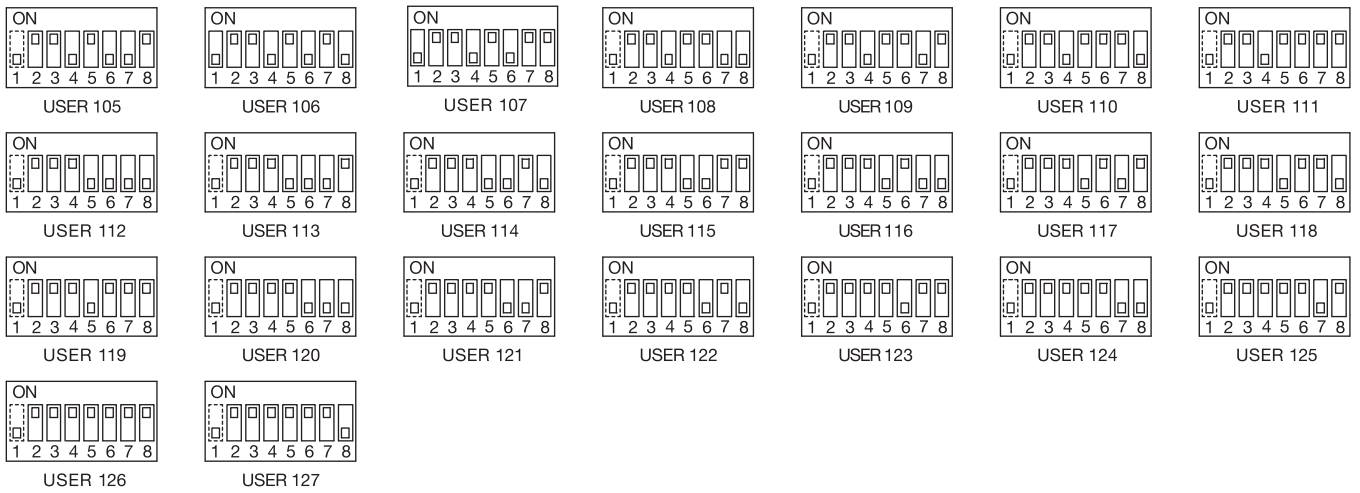


Using both outputs from the entry panel it is possible for the one entry panel to control for example a pedestrian gate and a vehicle gate without additional equipment –

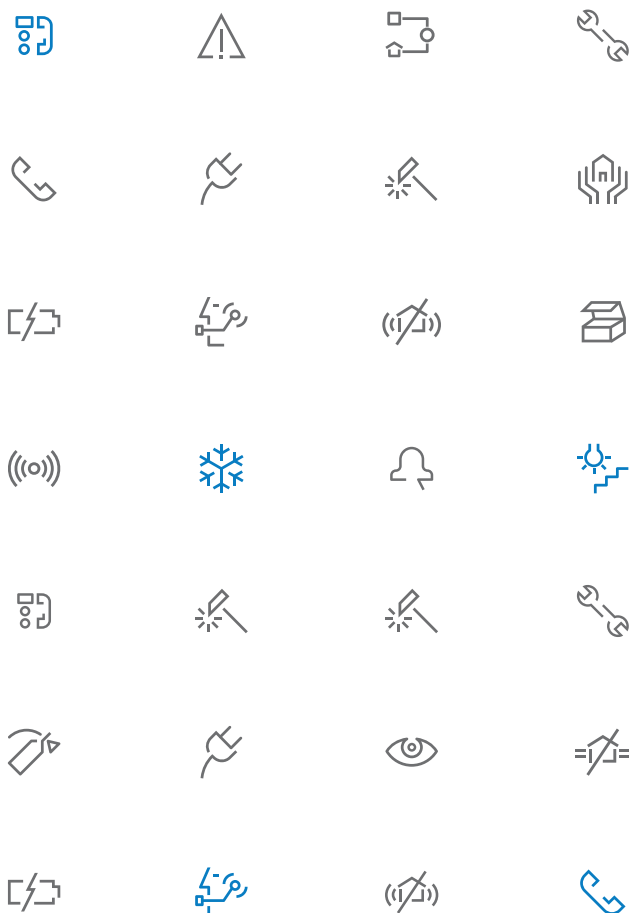


Handset DIP switch settings

						
USER 0	USER 1	USER 2	USER 3	USER 4	USER 5	USER 6
						
USER 7	USER 8	USER 9	USER 10	USER 11	USER 12	USER 13
						
USER 14	USER 15	USER 16	USER 17	USER 18	USER 19	USER 20
						
USER 21	USER 22	USER 23	USER 24	USER 25	USER 26	USER 27
						
USER 28	USER 29	USER 30	USER 31	USER 32	USER 33	USER 34
						
USER 35	USER 36	USER 37	USER 38	USER 39	USER 40	USER 41
						
USER 42	USER 43	USER 44	USER 45	USER 46	USER 47	USER 48
						
USER 49	USER 50	USER 51	USER 52	USER 53	USER 54	USER 55
						
USER 56	USER 57	USER 58	USER 59	USER 60	USER 61	USER 62
						
USER 63	USER 64	USER 65	USER 66	USER 67	USER 68	USER 69
						
USER 70	USER 71	USER 72	USER 73	USER 74	USER 75	USER 76
						
USER 77	USER 78	USER 79	USER 80	USER 81	USER 82	USER 83
						
USER 84	USER 85	USER 86	USER 87	USER 88	USER 89	USER 90
						
USER 91	USER 92	USER 93	USER 94	USER 95	USER 96	USER 97
						
USER 98	USER 99	USER 100	USER 101	USER 102	USER 103	USER 104



Further technical information can be found in the full **2Voice Technical Manual MT124-027**



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