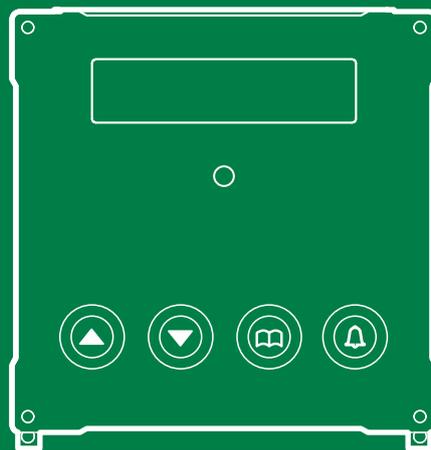


EN

TECHNICAL  
MANUAL



Digital directory module  
Art. 3072S

 **Comelit**<sup>®</sup>  
Passion. Technology. Design.

# Warning

## Intended use

This Comelit product was designed for use in the creation of audio and video communication systems in residential, commercial or industrial settings and in public buildings or buildings used by the public.

## Installation

All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the Manuals / Instruction sheets supplied with those products.

## Wires

Cut off the power supply before carrying out any maintenance procedures.

Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual.

We advise against running the system wires through the same duct as the power cables (230V or higher).

## Safe usage

To ensure Comelit products are used safely:

- carefully observe the indications provided in the Manuals / Instruction sheets
- make sure the system created using Comelit products has not been tampered with / damaged.

## Maintenance

Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the Manuals / Instruction sheets.

Any repair work must be carried out

- for the products themselves, exclusively by **Comelit Group S.p.A.**,
- for systems, by qualified technical personnel.

## Disclaimer

**Comelit Group S.p.A.** does not assume any responsibility for

- any usage other than the intended use
- non-observance of the indications and warnings contained in this Manual / Instruction sheet.

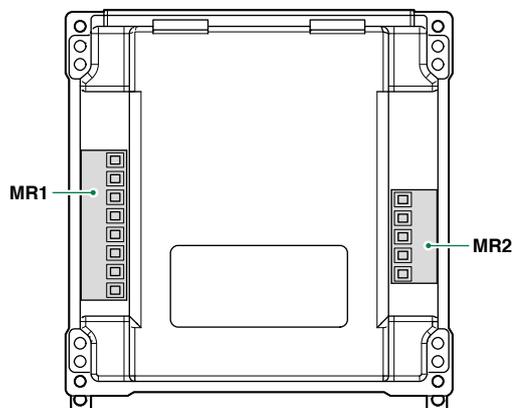
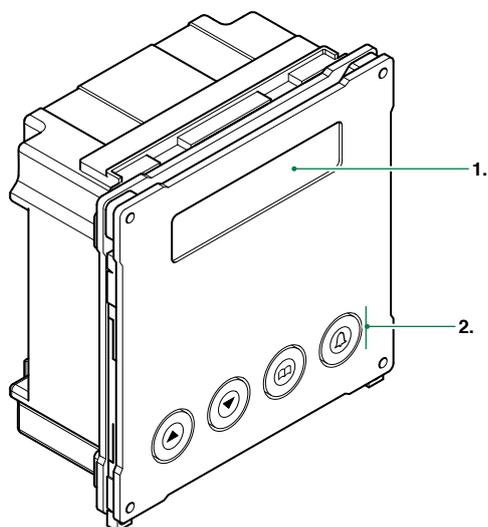
**Comelit Group S.p.A.** nonetheless reserves the right to change the information provided in this Manual / Instruction sheet at any time and without prior notice.

# Table of contents

<b>Warning</b> .....	<b>2</b>	<b>1. Settings</b> .....	<b>11</b>
<b>Description</b> .....	<b>3</b>	1.1. System parameters .....	11
<b>Technical features</b> .....	<b>4</b>	1.1.1. Speaker Parameters .....	11
<b>Connections</b> .....	<b>5</b>	1.1.2. Download type <b>[NOT VIP]</b> .....	12
<b>Connection to earth of 3072S</b> .....	<b>5</b>	1.1.3. Call management .....	13
<b>Connection to computer</b> .....	<b>5</b>	1.1.4. RS485 Address <b>[NOT VIP]</b> .....	14
<b>Connection in Building Kit and SB2 systems</b> .....	<b>6</b>	1.2. Language .....	14
<b>Connection in SBTOP and SB1 systems</b> .....	<b>6</b>	1.3. Default settings .....	15
<b>Program and Operation</b> .....	<b>7</b>	<b>2. Info</b> .....	<b>16</b>
<b>Navigation mode</b> .....	<b>7</b>	<b>DATA MANAGEMENT USING 1249B [NOT VIP]</b> .....	<b>16</b>
<b>Self-testing</b> .....	<b>8</b>	Entering a list (download) .....	16
Call management testing .....	8	Reading (upload) of the stored list .....	17
Setting the language .....	8	<b>2. Navigation tree</b> .....	<b>18</b>
<b>Using the digital module</b> .....	<b>9</b>	<b>System performance and layouts</b> .....	<b>19</b>
Calling a user .....	9		
Ending a call/conversation .....	10		
<b>Accessing/exiting the configuration stage</b> .....	<b>10</b>		

# Description

Vandalcom series digital directory module made using double 2.5 mm 316 stainless steel plate, complete with 4 backlit buttons and 32-character alphanumerical display. Stores up to 1000 user names. Name scrolling is carried out using 2 search buttons. One the right name has been found, just press the call button.  
For use in Building kit, SBTOP, SB1 audio, SB2 audio and ViP systems.



1. LCD screen

2. Navigation and confirm buttons

Terminal block for **MR1** connection

- V+** DC power supply positive
- V-** DC power supply negative
- 12~ 12~** AC power supply
- S** serial port
- reference negative
- PR** programming input
- reference negative

Terminal block for **MR2** connection

- D+** RS485 connection
- D-** RS485 connection
- reference negative
- RX** RS232 connection
- TX** RS232 connection

# Technical features

## MAIN FEATURES

Backlighting color	Green led
Vandal Resistant rating (IK code)	Yes
Product height (mm)	106
Product width (mm)	106
Product depth (mm)	56
Operating temperature (°C)	-25 ÷ 55
Maximum current absorption (mA)	100

## SOFTWARE/FIRMWARE SPECIFICATIONS

No. of storable users	1000
-----------------------	------

## HARDWARE SPECIFICATIONS

Total buttons	4
---------------	---

## COMPATIBILITY

Simplebus Top audio/video system	Yes
Building Kit audio/video system	Yes
Simplebus 2 audio system	Yes
Simplebus 1 audio system	Yes
Vip system	Yes

## MOUNTING/INSTALLATION

Flush-mounted	Yes
Wall-mounted	Yes

## AUDIO/VIDEO FEATURES

Display resolution (H x V)	16x2 characters
----------------------------	-----------------

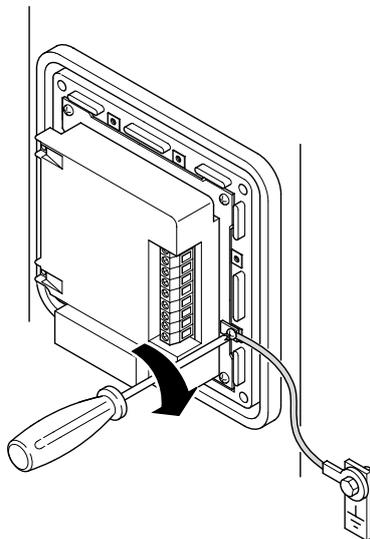
## CONNECTIVITY

Type of connections/ports	RS232, RS485, Infrared
Infrared port	Yes
RS232 ports	Yes
RS485 ports	Yes

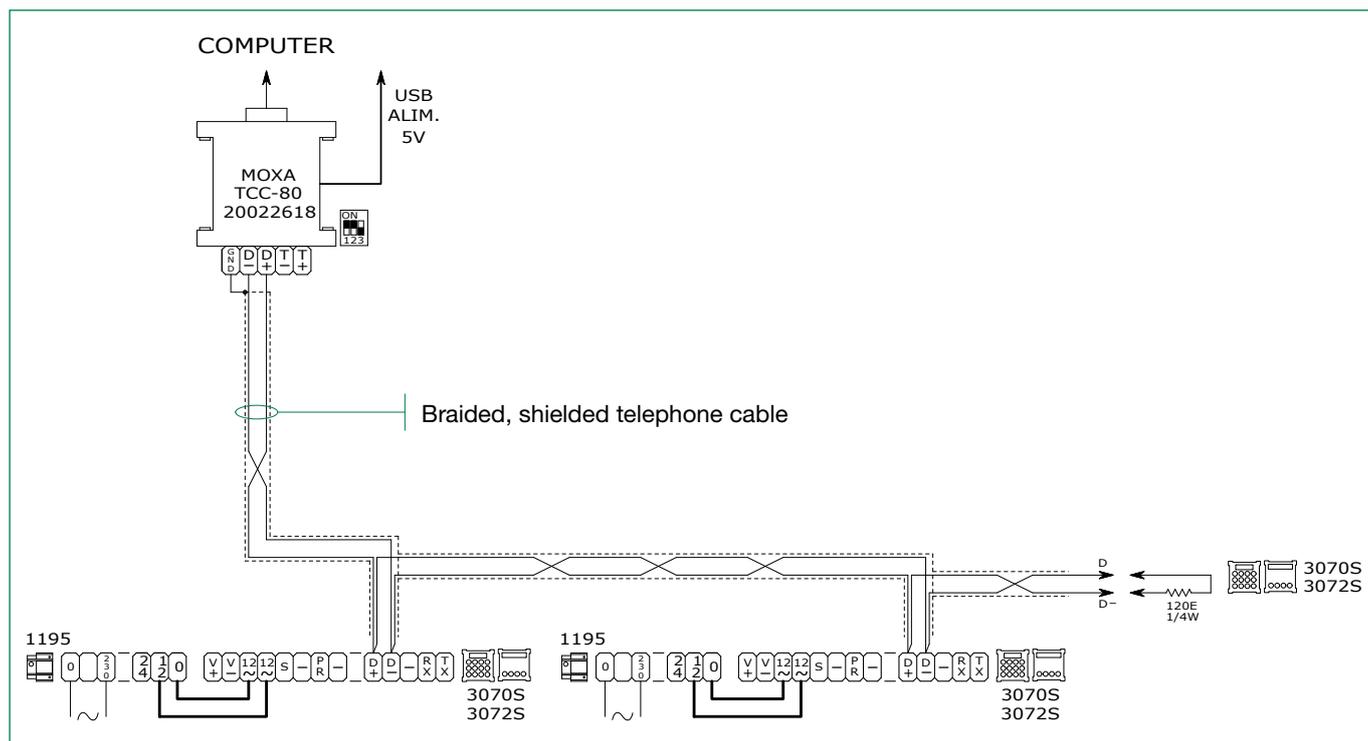
# Connections

## Connection to earth of 3072S

To prevent any interference caused by electrostatic discharges, it is advisable to screen the casing as shown in the diagram



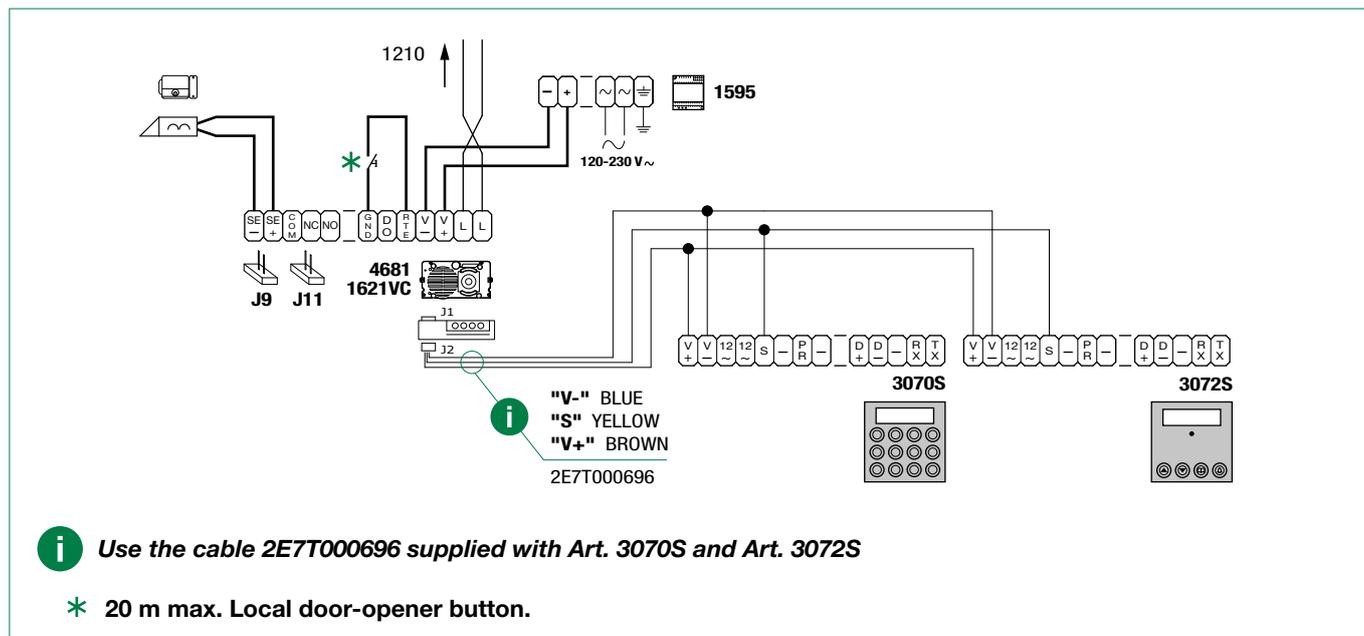
## Connection to computer



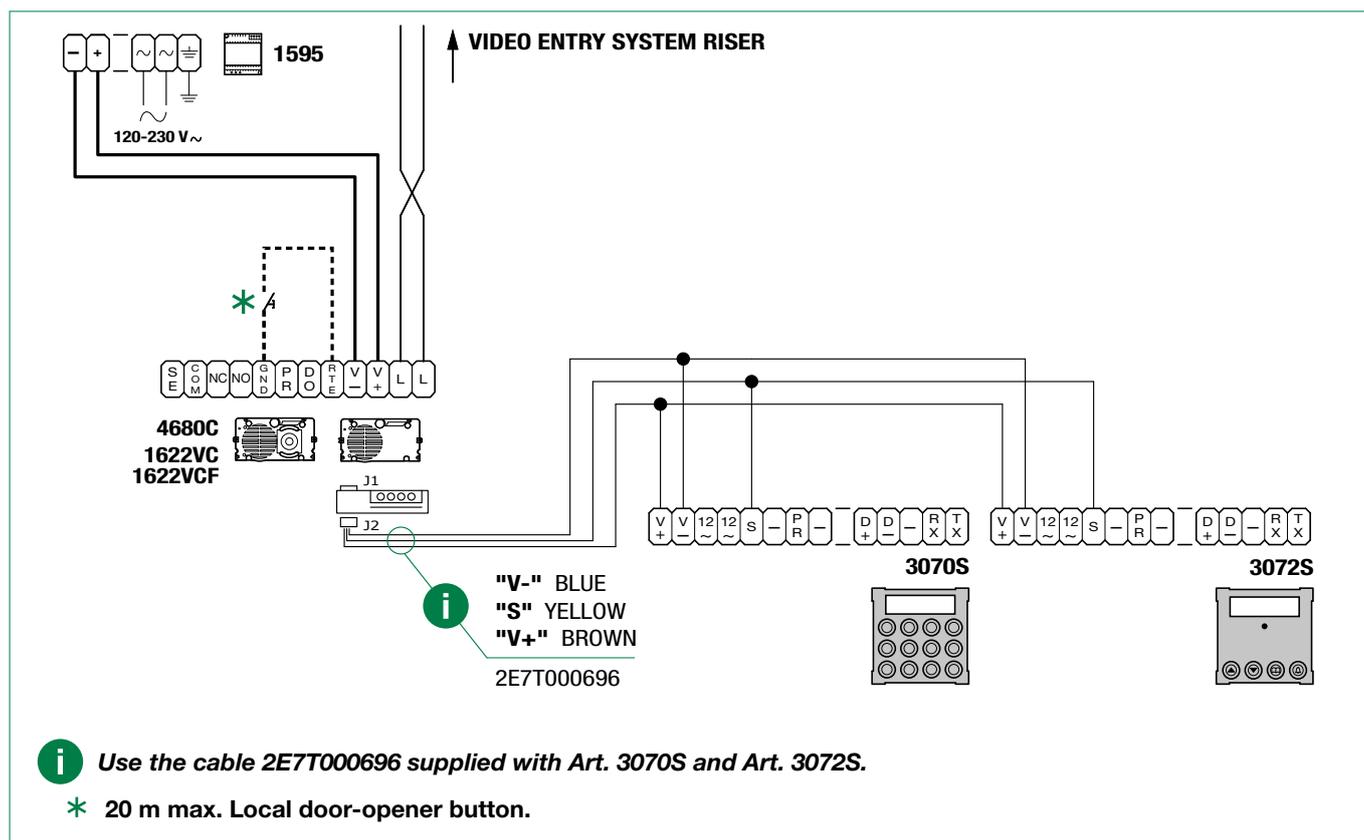
It is possible to use up to 5 terminals Art. 3070S-3072S

Maximum distance between Art. 20022618 and furthest terminal Art. 3070S-3072S: 100 m

## Connection in Building Kit and SB2 systems



## Connection in SBTOP and SB1 systems



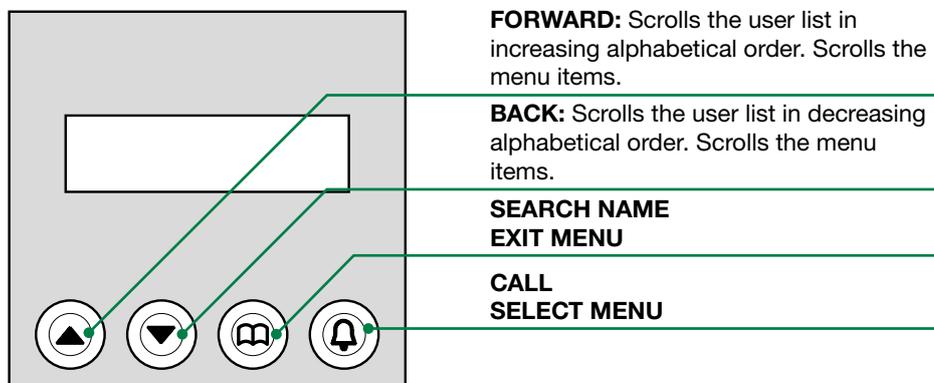
# Program and Operation

The Comelit digital call module Art. 3072S can be used in Building kit, SBTOP, SB1 audio, SB2 audio and ViP systems and can be used to call a door-entry phone user by selecting his/her name from a list saved to the memory:

## The main characteristics are as follows:

- Memory capacity 1400 names of 16 alphanumerical characters.
- 32-character alphanumeric display.
- Option of changing the Door lock time, Audio time and Reset time parameters for the speaker module (reset time adjustment is not available in VIP mode).
- 3 call management modes (see [“1.1.3. Call management”](#)):
  - Simplebus - standard (default),
  - Simplebus Top,
  - VIP.
- Entering the list of users (Download) via connection to PC equipped with software Art. 1249B.
- Entering users via connection with the PC can be performed over an RS232 line or over an RS485 line by means of the interface card Art. 20022618 (see [“Connection to computer”](#)).
- Reading (Upload) the list of users stored on the directory module via connection to PC equipped with software Art. 1249B.
- Option of displaying graphics interface messages in one of 12 available languages (Italian, English, French, German, Portuguese, Danish, Finnish, Dutch, Spanish, Swedish, Polish and Norwegian).
- Welcome message management (only available in VIP mode and programmable via VIP Manager).
- Screensaver (only available in VIP mode and programmable via VIP Manager).

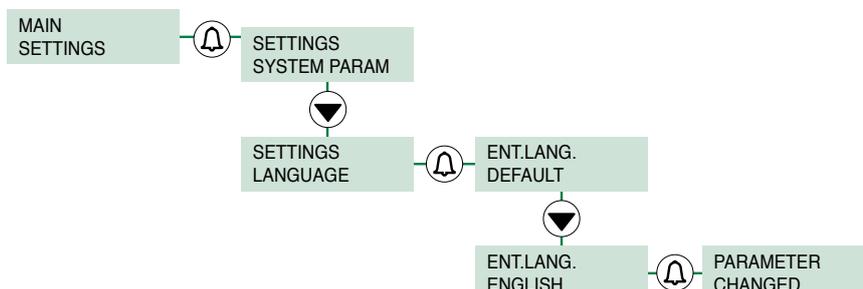
## Navigation mode



- ✓ Access to the configuration stage has been carried out (see [“Accessing/exiting the configuration stage”](#)).
- ▶ Scroll through the menu by pressing ▲ ▼.
- ▶ Press 🔔 to confirm the selection. Press 📖 to return to the menu level above.

### EXAMPLE: Accessing “language” parameter modification. “italiano” selected as language.

- ▶ access configuration mode (see [“Accessing/exiting the configuration stage”](#))



## Self-testing

### Call management testing



When the device is switched on, it performs a test to check the type of system configured on the speaker (Simplebus, Simplebus Top or VIP).

If the digital call module is new (or if the parameters have been restored to the default values):

- if the module is connected to a VIP system
  - » the module aligns with the speaker, self-configuring in “Call management VIP”, and receives all the information and data stored on the speaker;
- if the module is connected to an SB TOP system
  - » the first call mode display screen shows the string ERROR ✱.
- if the module is connected to an SB system
  - » the first call mode display screen shows the string SIMPLEBUS.

If the digital call module has an enhanced directory:

- if the directory and speaker are configured differently:
  - » the first call mode display screen shows the string ERROR ✱.
- if the directory and speaker are aligned:
  - » the first checking screen will show the system type SB / SB TOP / VIP.

✱ Follow the procedure described in “1.1.3. Call management” if you want to align the directory module with the type of system configured on the speaker.

INITIAL CONDITION		
On power up.	CALL MANAGEMENT PLEASE WAIT	The message PLEASE WAIT indicates self-testing in progress.
	CALL MANAGEMENT SIMPLEBUS  Or:  CALL MANAGEMENT ERROR	At the end of self-testing the type of system set is displayed (SIMPLEBUS by default).  If the directory and speaker are configured differently. ✱

✱ Follow the procedure described in “1.1.3. Call management” if you want to align the directory module with the type of system configured on the speaker.

### Setting the language

If the LANGUAGE parameter is set to DEFAULT.

During startup (after call mode testing), you will be asked to select the operating language.

INITIAL CONDITION		
DEFAULT(italiano)	INS. LINGUA DEFAULT      ↑ ↓	The current value of the parameter appears on screen.
PROCEDURE	DISPLAY INFO	DESCRIPTION
Scroll through the list using ▲ ▼	INS.LANG. ENGLISH      ↑ ↓	<b>N.B. If the LANGUAGE parameter is set to DEFAULT, you will be asked to set the language again at the next startup.</b>
Press 🔔 to confirm.	PARAMETER CHANGED	

## Using the digital module

### Calling a user

INITIAL CONDITION		
PROCEDURE	DISPLAY INFO	DESCRIPTION
On power up in standby.	<p>SELECT NAME BY ↑ ○ ↓</p> <p>SEARCH THE NAME BY 📖</p>	
<b>Select the user by scrolling through the list of users</b>		
Scroll through the list using keys ▲ or ▼	<p>JOHN DOE PRESS 📞 TO CALL</p>	To scroll faster, press and hold one of the keys.
<b>OR: select the user by searching the directory</b>		
Press 📖 to access the directory.	<p>ABCDEFGHIJKLMN OPQRSTUVWXYZäåßöü</p>	
Select the initial of the user name you want to search for using ▲ or ▼	<p>ABCDEFGHIJKLMN OPQRSTUVWXYZäåßöü</p>	EXAMPLE: R
Press 📞 to confirm.	<p>SEARCHING...</p>	
Scroll through the list using keys ▲ or ▼	<p>ROSSI MARIO PRESS 📞 TO CALL</p> <p>Or:</p> <p>NO USER FOUND</p>	<p>The display shows the first user in the list starting with the selected letter (or with the following letter).</p> <p>No user starting with the selected letter or the following letter has been found.</p>
<b>Make the call</b>		
Press the 📞 key to call.	<p>PLEASE WAIT</p> <p>↓</p> <p>If the call is successful you will see:</p> <p>CALL EFFECTED</p> <p>If the call was not successful you will see:</p> <p>CALL FAILED</p> <p>Or if the riser is busy you will see:</p> <p>USER BUSY</p>	
	<p>If the call is successful and the user answers you will see:</p> <p>COMMUNICATING</p>	

## Ending a call/conversation

INITIAL CONDITION		
	<p>CALL EFFECTED</p> <p>Or:</p> <p>COMMUNICATING...</p>	<p>Call effected.</p> <p>Conversation in progress.</p>
PROCEDURE	DISPLAY INFO	DESCRIPTION
Press the  key	<p>END OF COMMUNICATION</p>	

## Accessing/exiting the configuration stage

PROCEDURE	DISPLAY INFO	DESCRIPTION
Connect terminal PR to terminal – and power up the module.	<p>MAIN SETTINGS</p>	<p>The module is in programming mode.</p> <p>Scroll through the menu using ▲ or ▼.</p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p>
<b>Configure the parameters you wish to change...(see "1.1. System parameters")</b>		
After configuration is complete, cut off the power supply and remove the connection between PR and –.		The module has exited programming mode.

# 1. Settings

## 1.1. System parameters

### 1.1.1. Speaker Parameters

This procedure can be used to:

- A. Change the audio time:** audio times (t AUDIO)
- B. Change the door lock time:** the door lock relay closure time (t DOOR LOCK)
- C. Change the reset time [NOT VIP]:** the speaker module reset time once door-entry phone communication has ended (t RESET)

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/ exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / SYSTEM PARAM. / <b>SPEAKER PARAM.</b></p>	<pre> MAIN SETTINGS SETTINGS SYSTEM PARAM. SYSTEM PARAM. SPEAKER PARAM. SPEAKER PARAM. ENTER t AUDIO                     </pre>	<p>Scroll through the menu using ▲ or ▼.</p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p>
<p>Use ▲ ▼ to select the menu option for the parameter you want to change. (t AUDIO, t DOOR LOCK, t RESET)</p>	<pre> ENTER t AUDIO 0010          ↑ ↓                     </pre>	<p>EXAMPLE: Changing the audio time.</p> <p>The minimum (not current) value of the parameter appears on screen.</p>
<p>Enter the desired value using the ▲ or ▼.</p>	<pre> ENTER t AUDIO 0100          ↑ ↓                     </pre>	<p>RANGE:</p> <p><b>[SB] [SB TOP]</b></p> <p>t AUDIO (10-180)</p> <p>t DOOR LOCK (1-8)</p> <p>t RESET (1-10)</p> <p><b>[VIP]</b></p> <p>t AUDIO (30-600)</p> <p>t DOOR LOCK (1-60)</p>
<p>Press the key  to confirm the value of the parameter.</p>	<pre> PARAMETER CHANGED                     </pre>	<p>If entry is successful.</p>
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

- D. Viewing [NOT VIP]:** This procedure can be used to view the audio time, door lock relay closure time and reset time for the speaker module, plus the call management mode.

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/ exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / SYSTEM PARAM. / SPEAKER PARAM. / <b>VIEWING</b></p>	<pre> MAIN SETTINGS SETTINGS SYSTEM PARAM. SYSTEM PARAM. SPEAKER PARAM. SPEAKER PARAM. VIEWING                     </pre>	<p>Scroll through the menu using ▲ or ▼.</p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p>

<p>Scroll using ▲ or ▼</p>	<p>PLEASE WAIT</p> <p>AUDIO TIMING 0020    ↑ ↓</p> <p>DOOR LOCK TIME 0002    ↑ ↓</p> <p>RESET TIME 0010    ↑ ↓</p> <p>CALL MANAGEMENT SIMPLEBUS    ↑ ↓</p>	<p>Press  to return to the menu level above.</p>
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

### 1.1.2. Download type [NOT VIP]

The parameter sets the type of connection (RS232 or RS485) used for data management.

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / SYSTEM PARAM. / <b>DOWNLOAD TYPE</b>.</p>	<p>MAIN SETTINGS</p> <p>SETTINGS SYSTEM PARAM.</p> <p>SYSTEM PARAM. DOWNLOAD TYPE</p> <p>DOWNLOAD TYPE RS232    ↑ ↓</p>	<p>Scroll through the menu using ▲ or ▼.</p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p> <p>The currently configured value appears on screen.</p>
<p>Scroll through the list using keys ▲ or ▼.</p> <p>Press the  key to confirm.</p>	<p>DOWNLOAD TYPE RS485    ↑ ↓</p>	<p><b>EXAMPLE:</b> Changing the download type.</p>
	<p>PARAMETER CHANGED</p>	<p>If entry is successful.</p>
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

### 1.1.3. Call management

There are 3 call management modes to choose from:

- Standard Simplebus (default),
- Simplebus Top,
- Vip

#### A. SIMPLEBUS - STANDARD call mode (default)

In this operating mode, the door-entry phone user is identified by a Username field and a Code field no longer than 3 digits (between 1 and 240).

Address entry on the speaker is managed using software **1249B**.

**EXAMPLE:** User name= Smith; Code= 1

#### B. SIMPLEBUS TOP call mode

In this call mode, the door-entry phone user is identified by the User name field and a Code field consisting of 2 parts, a zone field with up to 3 digits (between 1 and 500) and a user field which must have 3 digits (between 1 and 240).

Address entry on the speaker is managed using software **1249B**.

**EXAMPLE:** User name= Smith; Code= 25 015;

#### C. VIP call mode

In this operating mode the door-entry phone user is identified with a VIP address (max. 8 digits; for code self-completion please refer to the technical manual for VIP Manager software 1449).

Address entry on the speaker is managed using **VIP Manager software 1449**.

**EXAMPLE:** User name= Smith; Address= 1056;

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / SYSTEM PARAM. / <b>CALL MANAGEMENT</b></p>	<p>MAIN SETTINGS</p> <p>SETTINGS SYSTEM PARAM.</p> <p>SYSTEM PARAM. CALL MANAGEMENT</p> <p>CALL MANAGEMENT SIMPLEBUS ↑ ↓</p>	<p>Scroll through the menu using ▲ or ▼.</p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p> <p>The current value of the parameter appears on screen (Simplebus, Simplebus Top, VIP).</p>
<p>Scroll through the list using keys ▲ or ▼</p>	<p>CALL MANAGEMENT SIMPLEBUS TOP ↑ ↓</p>	<p>EXAMPLE: setting the system as SIMPLEBUS TOP.</p>
<p>Press the  key to confirm.</p>	<p>PLEASE WAIT</p>	<p>If the change was successful the speaker will emit a confirmation tone.</p>
	<p>PARAMETER CHANGED</p> <p>Or:</p> <p>ERROR DEFAULT SETTINGS</p>	<p>If the change took place properly the system type is shown.</p> <p>If the directory and speaker are configured differently and the directory already contains data, the default values must be restored.</p>
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

### 1.1.4. RS485 Address [NOT VIP]

The value of this parameter is used only in special applications.

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/ exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / SYSTEM PARAM. / <b>ADDRESS RS485</b></p>	<p>MAIN SETTINGS</p> <p>SETTINGS SYSTEM PARAM.</p> <p>SYSTEM PARAM. ADDRESS RS485</p> <p>ADDRESS RS485 0000 ↑ ↓</p>	<p><b>Scroll through the menu using ▲ or ▼.</b></p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p> <p>The current value of the parameter appears on screen.</p>
<p>Enter the desired value using the ▲ or ▼ keys.</p>	<p>ADDRESS RS485 0250 ↑ ↓</p>	<p><b>RANGE:</b> from 0 to 255.</p> <p><b>EXAMPLE:</b> Entering address 250.</p>
<p>Press the  key to confirm.</p>	<p>PARAMETER CHANGED</p>	
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

### 1.2. Language

The value of this parameter is used to set the language in which messages are displayed.

PROCEDURE	DISPLAY INFO	DESCRIPTION
<p>Access configuration (see <a href="#">“Accessing/ exiting the configuration stage”</a>)</p> <p>Select the menu SETTINGS / <b>LANGUAGE</b></p>	<p>MAIN SETTINGS</p> <p>SETTINGS LANGUAGE</p> <p>ENT.LANG. ENGLISH ↑ ↓</p>	<p><b>Scroll through the menu using ▲ or ▼.</b></p> <p>Press  to confirm.</p> <p>Press  to return to the menu level above.</p> <p>The current value of the parameter appears on screen.</p>
<p>Scroll through the list using ▲ ▼</p> <p>DEFAULT(italiano)</p>	<p>ENT.LANG. ITALIANO ↑ ↓</p>	<p><b>N.B. If the LANGUAGE parameter is set to DEFAULT, you will be asked to set the language again at the next startup.</b></p>
<p>Press  to confirm.</p>	<p>PARAMETER CHANGED</p>	
<p>Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a>)</p>		

### 1.3. Default settings

This procedure restores the factory-set default parameters.

Language = DEFAULT;

System type = SIMPLEBUS;

Call type = STANDARD;

Screensaver = disabled; (the Screen Saver function can only be programmed for VIP systems using VIP Manager);

RS485 address = 0000;

Download type = RS232;

Welcome message = disabled; (the Welcome message function can only be programmed for VIP systems using VIP Manager)

Static welcome message = disabled; (the Welcome message function can only be programmed for VIP systems using VIP Manager)

Number of directory entries = 0



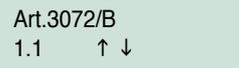
**This procedure resets the directory database**

PROCEDURE	DISPLAY INFO	DESCRIPTION
Access configuration (see <a href="#">“Accessing/exiting the configuration stage”</a> ) Select the menu SETTINGS / <b>DEFAULT SETTINGS</b>	    	Scroll through the menu using ▲ or ▼. Press  to confirm. Press  to return to the menu level above.  The current value of the parameter appears on screen.
Change the parameter using ▲ ▼		
Press  to confirm.	  	
Exit configuration (see <a href="#">“Accessing/exiting the configuration stage”</a> )		

## 2. Info

This procedure can be used to view:

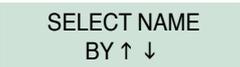
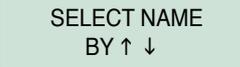
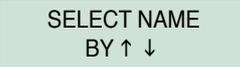
- the firmware version
- the number of users stored **[NOT VIP]**
- the RS485 address **[NOT VIP]**
- call management

PROCEDURE	DISPLAY INFO	DESCRIPTION
Access configuration (see <b>“Accessing/ exiting the configuration stage”</b> ) Select the menu INFO	  	Scroll through the menu using ▲ or ▼. Press  to confirm. Press  to return to the menu level above.
Scroll using ▲ ▼  Press the  key to exit the menu.		
Exit configuration (see <b>“Accessing/exiting the configuration stage”</b> )		

## DATA MANAGEMENT USING 1249B **[NOT VIP]**

### Entering a list (download)

Software Art.1249/B can be used to enter a list, on module 3072S, with the Username and Code fields in alphabetical order. The following preliminary procedures must be performed:

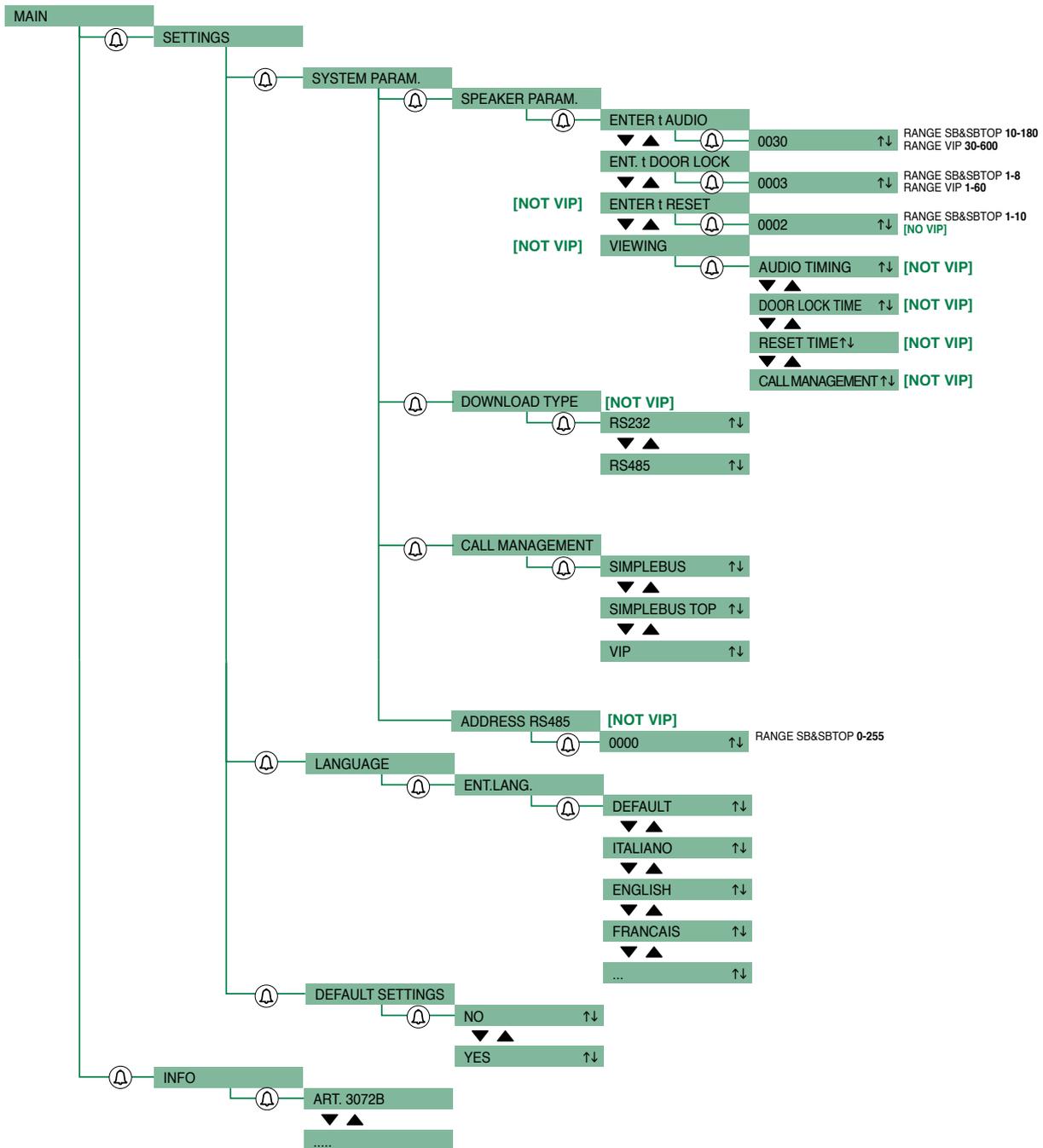
INITIAL CONDITION		
Module powered up in standby mode.		
PROCEDURE	DISPLAY INFO	DESCRIPTION
Connect the cable supplied with software Art. 1249B to terminals TX / RX / - (or D / D- if you have an RS485 line).		
Run software Art. 1249B. Consult the online product Guide for the required settings.		<b>On software 1249/B, the CALL MODE must be set as Standard.</b>
Make the list with the Username and Code fields in software Art. 1249/B, or load an existing list.		
Press the Download button in software Art. 1249B.		
	  Or:  	If the download was completed successfully.          If an error occurred during the download.

## Reading (upload) of the stored list

Software Art.1249/B can be used to read the list, from module 3072S, with the Username and Code fields. The following preliminary procedures must be performed:

INITIAL CONDITION		
Module powered up in standby mode.	SELECT NAME BY ↑ ↓	
PROCEDURE	DISPLAY INFO	DESCRIPTION
Connect the cable supplied with software Art. 1249/B to terminals TX / RX / - (or D / D- if you have an RS485 line).	SELECT NAME BY ↑ ↓	
Run software Art. 1249/B. Consult the online product Guide for the required settings.	SELECT NAME BY ↑ ↓	
Press the Upload button in software Art. 1249/B.		
	UPLOAD ENDED  Or:  UPLOAD FAILED	If the upload was completed successfully.    If an error occurred during the upload.

## 2. Navigation tree



## System performance and layouts

For further information of system performance and to view installation layouts, click on the system type that best meets your requirements:

- [Building Kit audio/video system](#) for the creation of audio-video systems for *small apartment blocks*.
- [SBTOP audio/video system](#) for the creation of audio-video systems for *residential complexes*.
- [SB2 audio system](#) for the creation of audio systems for *residential complexes*.
- [SB1 audio system for the creation of audio systems for residential complexes](#).

CERTIFIED MANAGEMENT SYSTEMS



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