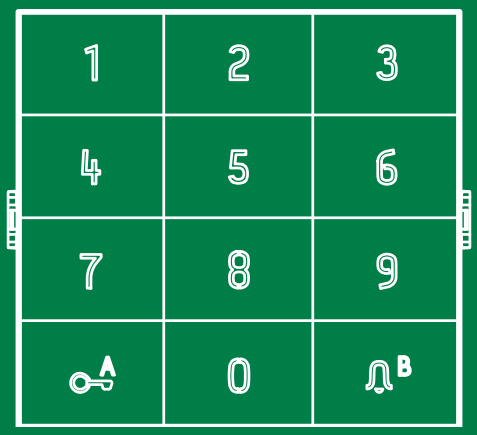
EN

TECHNICAL
MANUAL



Number keypad module Art. UT9279M

Comelit®
Passion.Technology.Design.

Warning

Intended use

This Comelit product has been designed and manufactured for use in the creation of audio and video communication systems in residential, commercial, industrial and public buildings.

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

Disconnect the power supply before carrying out any operations on the wiring.

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 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.

Service

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 repairs must be carried out:

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

Disclaimer

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

- any purpose other than the intended use,
- failure to observe the indications and warnings contained in this Manual / Instruction sheet.

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

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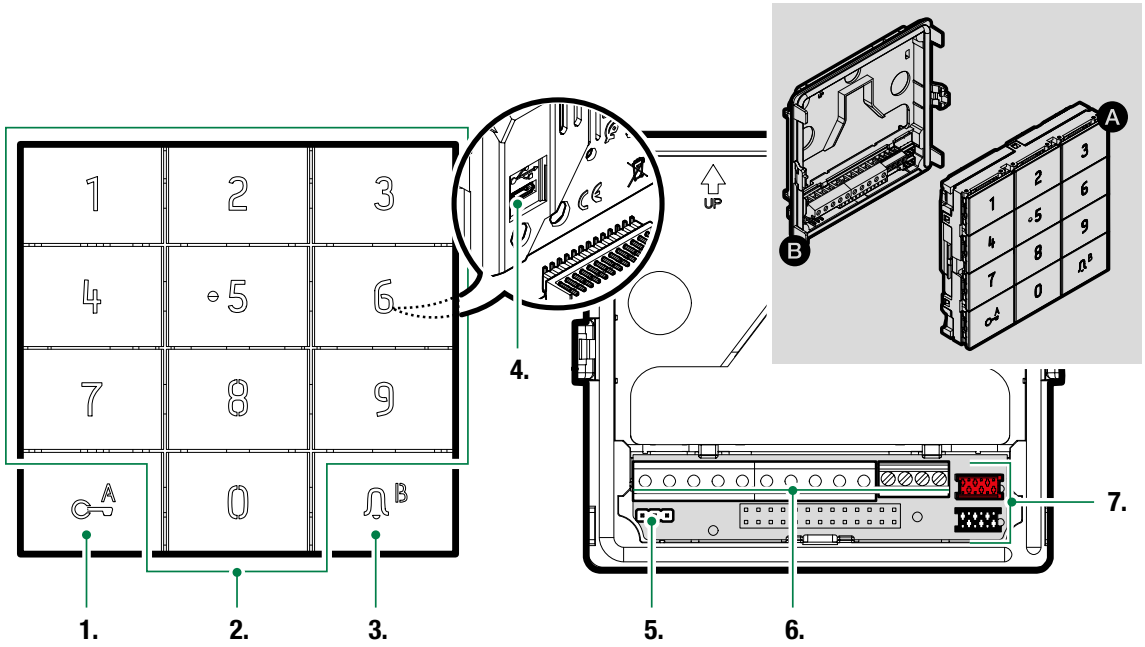
Description

*Module with number keypad for Ultra entrance panel, compatible with all systems. It can be used as a **module for calling the user directly** when the code is known and **for access control** with the activation of built-in relays and audio or audio/video module outputs, and system actuators. The access codes may be permanent (always valid), metered (valid for a certain number of uses) or associated with a validity date. In the latter case, each code can be assigned a validity start/end date, dual daily time band and validity days. Each access code can be assigned up to 4 different actions. The playback function for playing the relevant audio message when each button is pressed can be enabled. There is also an event log, complete with all information (activated codes, user that used them, users called, etc.), which can store up to 1275 events. It has a Wiegand output for interfacing with access control systems. Automatic button backlight deactivation during daylight hours using the twilight sensor for the paired audio or audio/video module. Anodised aluminium alloy coating. Dimensions: 100x90x35 mm (1 Ultra module).*



1. Key button

2. Number keypad

3. Bell key / status LED

4. **Micro USB** for connection to the computer

5. **JP1** jumper for programming access

JP1 normal operation

JP1 programming mode active

6. Terminal block for connection:

RK	local lock-release input
CK	trade function input for key button enabling
GND	negative for CK and RK
NO1 NC1 COM1	relay 1 contacts
NO2 COM2	relay 2 contacts
V- V+	12-33 VDC or 12-24 VAC power supply input, for use in stand-alone mode (without Ultra audio or audio/video module)
D1 D0 GND	Wiegand output connection
IN	Wiegand output command successful feedback

7. Connector for connecting previous/next modules

Technical specifications

GENERAL DATA	
Type	Modular
Product height (mm)	90
Product width (mm)	100
Product depth (mm)	35
Product colour	Aluminium
Material	Polycarbonate, Anodised aluminium
Flush mounting	Yes, with specific accessory
Surface mounting	Yes, with specific accessory

COMPATIBLE SYSTEMS	
Simplebus 2 audio/video with power supply unit art. 4888C	Yes
Simplebus 2 audio/video with power supply unit art. 1210/1210A	Yes
Simplebus 2 audio with power supply unit art. 1210/1210A	Yes
Simplebus 1 audio	Yes
ViP	Yes

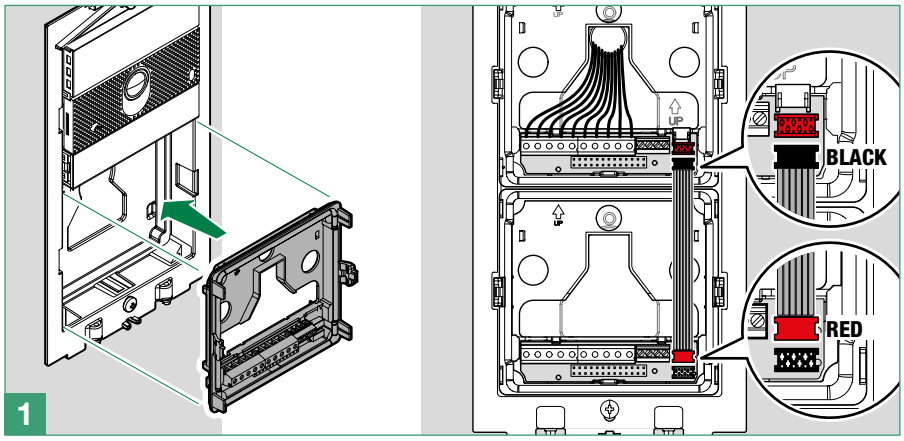
ELECTRICAL SPECIFICATIONS	
Type of power supply	Power supply via door entry monitor BUS, External power supply
Power supply voltage	12-33 VDC, 12 VAC
Maximum absorption (W)	3.3
Absorption with 1 bistable relay activated (mA)	75
Absorption with 2 bistable relays activated (mA)	100

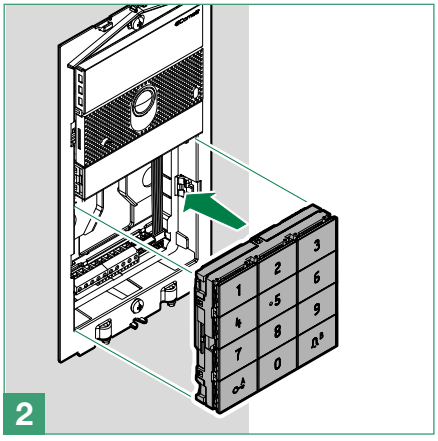
HARDWARE CHARACTERISTICS	
Call type	Digital
Type of buttons	Mechanical
Number of buttons (no.)	12
Backlighting colour	White, Off
Terminals	RK CK GND NO1 NC1 COM1 NO2 COM2 V- V+ D1 D0 IN GND
Number of inputs (no.)	2
Number of outputs (no.)	2

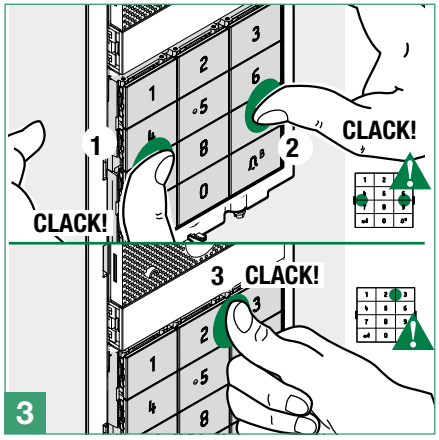
ENVIRONMENTAL AND CONFORMITY SPECIFICATIONS	
Operating temperature (°C)	-25 to 55
Operating humidity (max RH - %)	25 to 95
Environmental class	IV
Conformity and Certifications	RoHS II - 2011/65/EU (EN 50581:2012), EMC 2014/30/EU (EN 61000-6-1:2007, EN 61000-6-3:2007+A1:2011)

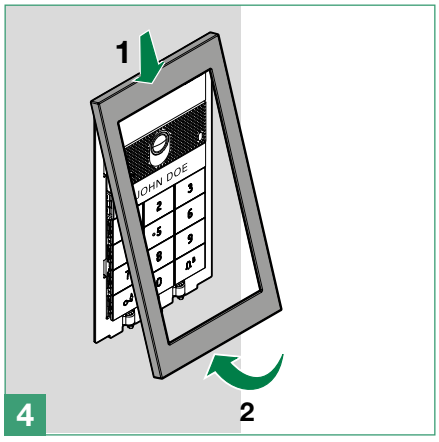
MAIN FUNCTIONS	
Lock-release	Yes
Voice synthesis	Yes
System status visual indications	Yes
Visual indications	Yes
Acoustic indications	Yes
Access control via lock-release code	Yes
Number of auxiliary relays (no.)	2
Number of lock-release codes (no.)	4000

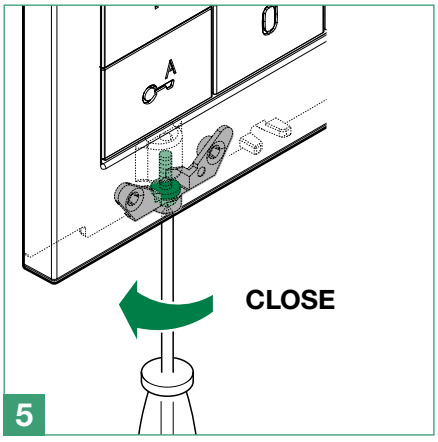
Installation



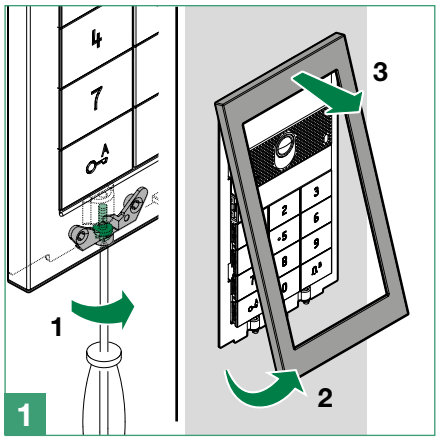


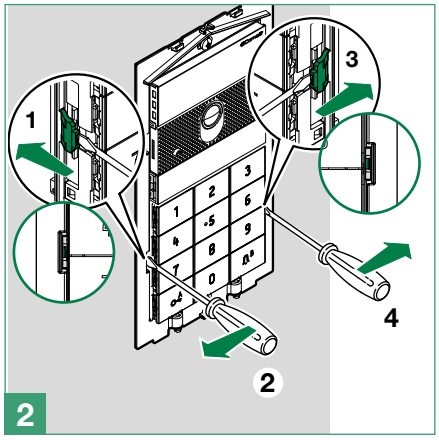




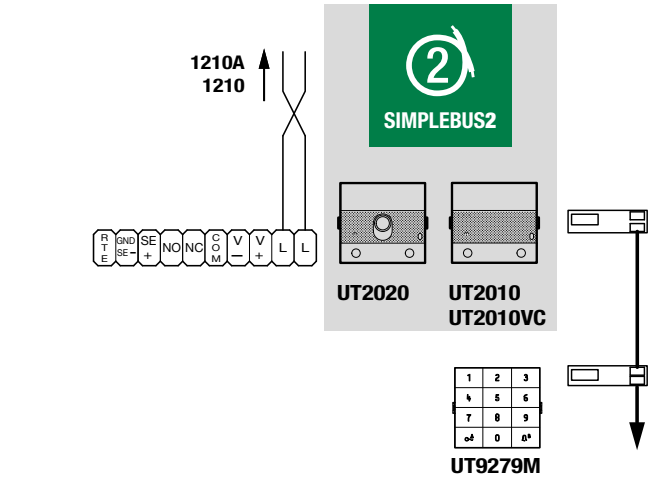


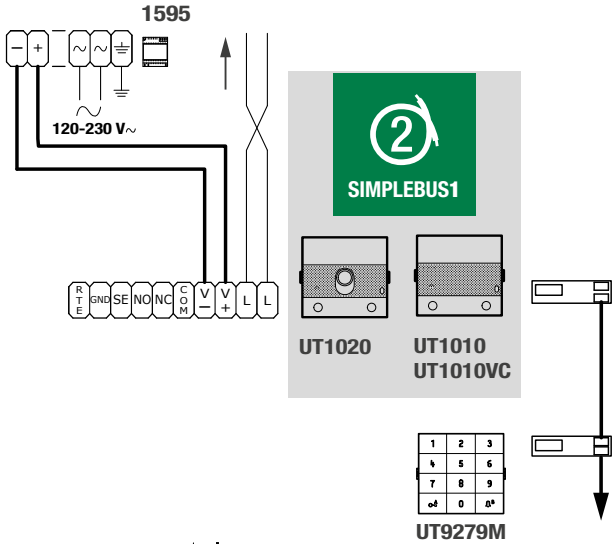
Module removal

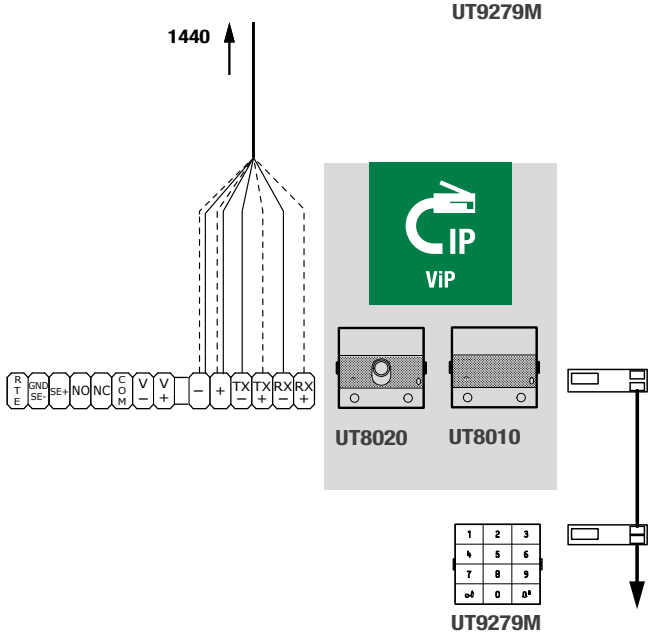


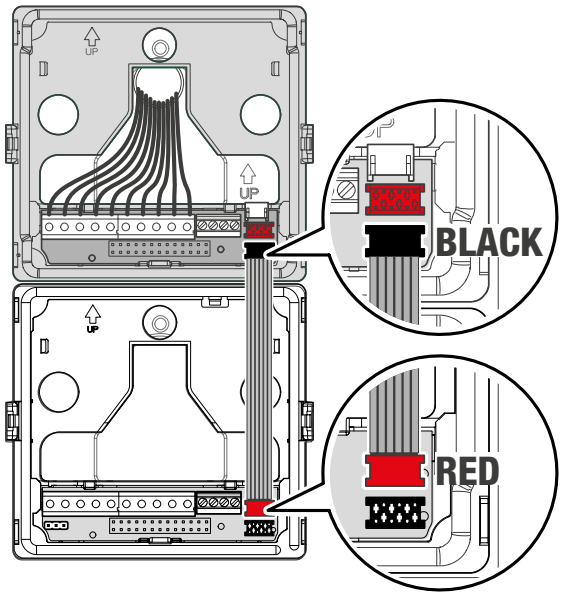


Ultra audio/video module connection

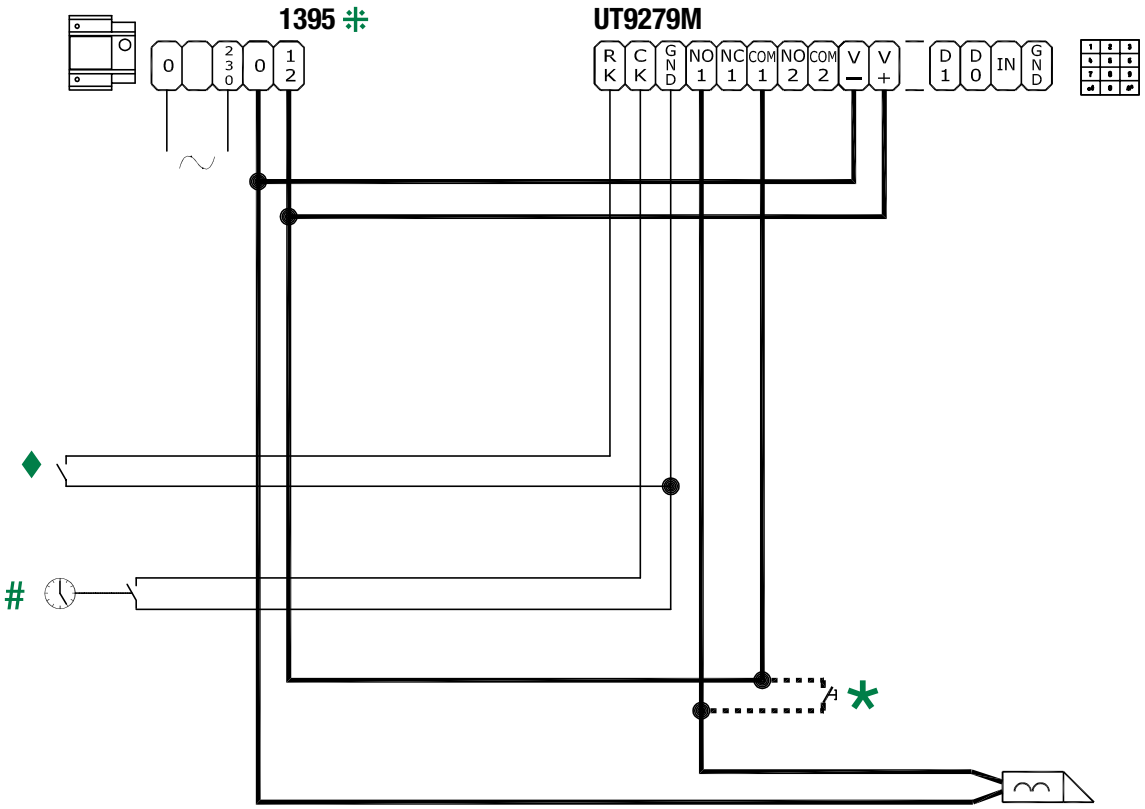








Stand-alone connection



⁜ Art. 1595 can also be used.

\# Trade function input for enabling key button A

♦ Local lock-release input

✱ **Max 20 m.** Local door-opener button.

Programming

Default configuration

PARAMETER	DEFAULT VALUE
Supercode	778899 ◊
Number of characters for opening codes	5
Relay paired with opening *	Module SE output **
Code validity	0 (permanent)
Relay 1 timing	2 seconds
Relay 1 buzzer	Disabled
Relay 2 timing	2 seconds
Relay 2 buzzer	Disabled
Panic function	Disabled
Wiegand mode	Disabled (When enabled: every time the button is pressed, its code is emitted in 4 bits for each digit without parity, with the addition of the letter “B” at the end of the string)
Backlighting	Guided by the audio or audio/video module (if present) or always on (if stand-alone) #
Maximum number of errors	3
Playback of the relevant audio message when each button is pressed	Disabled
Type of system	Simplebus
Buzzer	Enabled
Clock input	When the key button is pressed, relay 1 is activated
Relay ringtone enabled	Disabled
Universal access code	(no pre-set code)

◊ **CAUTION: to guarantee security, we recommend changing the supercode.**

* Relay activated when a valid access code is recognised.

** To change the default setting, see: “**Changing relay settings**”

\# See: “**Permanent backlight activation...**”

If it is not changed, this is the configuration that will be used when programming opening codes. Depending on your requirements, you will always be able to change it before programming these codes.

Indicator LED

The status LED is located behind the key. Indication mode:

Flashing GREEN: code entry in progress

Steady RED: code rejected (active for 3 seconds)

Flashing RED: keypad locked due to an excessive number of incorrect code entries. You need to wait 15 seconds before you can enter a new code.

YELLOW: module in programming mode

Flashing BLUE: trade mode active

Changing the configuration

To change the configuration of the number keypad, you need to enter programming mode.

To access programming, select one of the following modes:

- enter the Supercode on the number keypad
- set the Jumper (JP1) for the number keypad to programming mode
- use the ViP Manager software, available to download free of charge from the website **pro.comelitgroup.com.**

Programming via number keypad

Creating an access code

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ᴮ lights up in yellow*	**77889**
2. Enter a valid access code *(example: 98654)* **the following are not permitted:** • codes shorter than the number of characters required for access codes (default 5) • codes matching the supercode (even partially) • codes matching the universal code • codes containing the characters A or B.	*(code)*
3. Confirm by pressing B » *if the code is correct: the LED ⎍ᴮ lights up in green for 3 seconds* » *if the code is rejected: the LED ⎍ᴮ lights up in red for 3 seconds*	⎍ᴮ
4. Wait for the LED ⎍ᴮ to turn yellow and repeat steps 2 and 3 to enter other access codes	
5. Press ⎍ᴮ twice to exit programming mode	2 ×⎍ᴮ

Using an access code

Enter the programmed access code *(example: 98654)* **to activate the paired relay** » *if the code is correct: the output is activated and the LED ⎍ᴮ lights up in green for 3 seconds* » *if the code is incorrect: the LED ⎍ᴮ lights up in red for 3 seconds* » *if the maximum number of incorrect code entry attempts is reached, the keypad locks for 15 seconds and the red LED ⎍ᴮ flashes for the duration of the lock period.*	*(code)*

Deleting an access code

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ᴮ lights up in yellow*	**77889**
2. Enter the access code you want to delete *(example: 98654)*	*(code)*
3. Confirm by pressing A	⊂ᴬ
4. Wait for the green LED ⎍ᴮ to turn yellow	
5. Press ⎍ᴮ twice to exit programming mode	2 ×⎍ᴮ

Deleting all access codes

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ᴮ lights up in yellow*	**77889**
2. Enter the code BA0ABA » *the number keypad restarts, wait 20 seconds.*	**BA0ABA**

Use as a call module

1. Enter the code for the internal unit you want to call *(example: 1)* During entry, the green LED ⎍ᴮ flashes	*(code)*
2. Confirm by pressing B » *a call sent confirmation tone sounds*	⎍ᴮ

The code can consist of up to 3 digits.

Changing the supercode

The new code should consist of 6 characters and must not match the stores access codes, even partially.

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ᴮ lights up in yellow*	**77889**
2. Enter code B4 » *the green LED ⎍ᴮ flashes*	⎍ᴮ4
3. Enter a new supercode • it should be 6 characters long **the following are not permitted:** • codes matching the stored access codes (even partially) • codes matching the universal code • codes containing the characters A or B *(example: 578661)* During entry, the green LED ⎍ᴮ flashes. » *if the code is correct: the LED ⎍ᴮ lights up in green for 3 seconds* » *if the code is rejected: the LED ⎍ᴮ lights up in red for 3 seconds*	*(code)*
4. Press ⎍ᴮ twice to exit programming mode	2 ×⎍ᴮ

Programming general parameters

To change the general parameters, you will need to proceed as follows:
CAUTION: you need to enter ALL the parameters, even the ones you do not want to change

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B0 » *the green LED ⎍ flashes*	⎍ 0
3. Enter the number of characters for opening codes This parameter is used to set the length of the access codes [4-5-6]. Pre-set value: 5. **CAUTION: If this value is changed, all previously programmed opening codes will be deleted**	*choose between 4-5-6*
4. Enter the number corresponding to the desired backlighting mode **[0]** guided by the audio or audio/video module (if present) **[1]** timed **[2]** always on (in stand-alone mode only) In timed mode the backlighting switches off after 20 seconds of keypad inactivity. Pre-set value: 0	*choose between 0-1-2*
5. Enter 0 or 1 to disable or enable the Panic function This function is used to: **[1]** activate relay 2 for the module to transmit an instant alarm **[0]** disable the function Pre-set value: 0	*choose between 0-1*
6. Select the Panic button This function is used to select the Panic function, entered after a valid access code, to activate relay 2 Pre-set value: 3 **CAUTION:** Panic mode must be enabled. The Panic character must be programmed even if Panic mode is disabled	*choose between 1-2-3-4-5-6-7-8-9-A-0-B*
7. Enter the maximum number of errors The keypad locks when the maximum programmed number of incorrect access codes has been entered. You need to wait 15 seconds before you can enter a new code. Pre-set value: 3	*choose between 0-1-2-3-4-5-6-7-8-9*
8. Enter 0 or 1 to disable or enable audio message playback when every key is pressed **[1]** enable **[0]** disable Pre-set value: 0	*choose between 0-1*
9. Enter the number corresponding to the type of system in which the device is installed **[0]** Simplebus **[2]** IP (ViP) Pre-set value: 0	*choose between 0-2*
10. Set the buzzer volume This function is used to select the sound level for the buzzer: 0 minimum level, 9 maximum level. Pre-set value: 9	*choose between 0-1-2-3-4-5-6-7-8-9*
11. Enter 0 or 1 to disable or enable Wiegand mode **[1]** enable **[0]** disable Pre-set value: 0	*choose between 0-1*
12. Press ⎍ twice to exit programming mode	2 × ⎍

EXAMPLE: *restore the factory values for the general parameters.*

Enter supercode	77889
Enter code B0	⎍ 0
Set the length of the opening code to 5 characters	5
Select the backlighting mode guided by the audio/video module	0
Disable the Panic function	0
Set key 3 as Panic button	3
Set the maximum number of incorrect access codes	3
Disable audio message playback when keys are pressed	0
Set the Simplebus system type	0
Set the buzzer volume	9
Disable Wiegand mode	0
Exit programming	2 × ⎍

Enabling/disabling the Buzzer

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B80 » *the green LED ⎍ flashes*	⎍ 80
3. Enter 0 or 1 to disable or enable the buzzer While the buzzer function is enabled, the device emits a tone every time a key is pressed **[1]** enable **[0]** disable Pre-set value: 1	*choose between 0-1*
4. Press ⎍ twice to exit programming mode	2 × ⎍

Relay programming

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B1 to program relay 1 or enter code B2 to program relay 2 » *the green LED ⎍ flashes*	⎍ 1 *or* ⎍ 2
3. Set the relay activation time (from 00 to 99 sec) This function is used to set the activation time for relay 1 or 2. An activation time between 01 and 99 seconds can be set. If you want to set instant relay activation (with no timing), set value **00** Pre-set value: 02 (2 seconds) **CAUTION: it is important to set both the tens and the units for the activation time seconds, even when you want to set a value under 10 seconds (for example: 09 sec)**	*00-01-02...* *...98-99*
4. Set the buzzer duration on activation of the relay This function is used to set the buzzer duration when the relay is activated (from 0 to 9 seconds) Pre-set value: 0 (buzzer disabled)	*choose between 0-1-2-3-4-5--6-7-8-9*
5. Press ⎍ twice to exit programming mode	2 × ⎍

Programming the clock input and key button

This function uses the internal device clock (or an external clock) to enable the key button to activate relay 1 in specific time bands, or to authorise opening by means of an access code in specific time bands only.

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B81 » *the green LED ⎍ flashes*	⎍ 81
3. Enter the number corresponding to the desired clock input operating mode **[0]** the clock input is ignored **[1]** pressing the key button controls relay 1 **[2]** access codes are only authorised if the clock input is enabled. The universal access code is independent of the clock input and is always authorised. **[3]** Behaviour depends on the value of the “Relay 2” functions (see below) Pre-set value: 1	*choose between 0-1-2-3*
4. Enter the number corresponding to the desired key button operating mode This parameter defines the role of the “Key” button when the value of the “Clock Input” parameter is set to “3”. **[0]** function disabled **[1]** pressing the “Key” button controls relay 2, regardless of the Clock Input status **[2]** pressing the “Key” button only controls relay 2 if the Clock Input is enabled. Pre-set value: 0	*choose between 0-1-2*
5. Press ⎍ twice to exit programming mode	2 × ⎍

Programming the universal access code

If access code validity has been limited with the clock input, it may be useful to have a “universal access code” for use in all situations.

CAUTION: the universal access code must be 6 digits long.

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B82 » *the green LED ⎍ flashes*	⎍ 82
3. Enter a valid universal code (example: 746541) • it should be 6 characters long **the following are not permitted:** • codes matching the supercode (even partially) • codes matching the stored access codes (even partially) • codes containing the characters A or B	*(code)*
4. Press ⎍ twice to exit programming mode	2 × ⎍

Programming key backlighting

1. For the default setting, enter the first 5 characters of the supercode » *the LED ⎍ lights up in yellow*	**77889**
2. Enter code B83 » *the green LED ⎍ flashes*	⎍ 83
3. Set the desired brightness value The value should be set between 000 and 100. 3 digits must always be entered. For example, to set backlighting to 50% of the nominal value, you need to enter 050.	*example: 050*
4. Press ⎍ twice to exit programming mode	2 × ⎍

Changing relay settings

By default:

- the relay activated when a valid access code is recognised is connected to the SE output for the audio or audio/video module
- the codes are set as permanent

If the number keypad module is in stand-alone mode, or if you want to change these parameters, you will need to follow the procedure below:

1. For the default setting, enter the first 5 characters of the supercode » *the LED lights up in yellow*	**77889**
2. Enter B5	5
3. Enter the number corresponding to the output you want to activate **[1]** keypad relay 1 **[2]** keypad relay 2 **[3]** keypad relay 1 and relay 2 **[4]** audio or audio/video module SE output **(default)** **[5]** audio or audio/video module relay 1 **[6]** External actuator Pre-set value: 4	*(number)*
4. If you selected "6 = External actuator" **in step 2, enter the actuator address; otherwise press 0** Pre-set value: 0	*(address)*
5. Set the opening code validity **[0]** permanent, the access code is always valid **(default)** N **[1 – 9]** limit the number of code entries (e.g.: if you select “5”, the code can be used 5 times, after which it will be deleted) Pre-set value: 0	*(number of uses)*
6. Press twice to exit programming mode	2 ×

CAUTION: From this moment all new stored access codes will activate the configured output and will possess the new set validity. Previously saved access codes remain unchanged.

Permanent activation of number keypad module backlight in stand-alone mode

1. For the default setting, enter the first 5 characters of the supercode » *the LED lights up in yellow*	**77889**
2. Enter code B0	0
3. Enter the programming sequence 520330090	**520330090**
4. Press twice to exit programming mode	2 ×

Restore factory settings

1. For the default setting, enter the first 5 characters of the supercode » *the LED lights up in yellow*	**77889**
2. Enter the initialising code BA0BAB » *the number keypad restarts, wait 20 seconds.*	**BA0BAB**

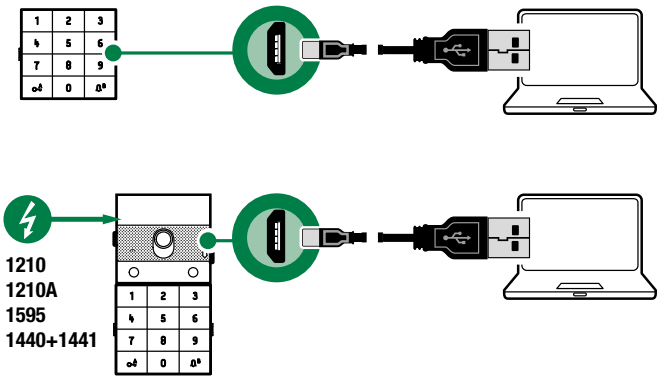
Programming via ViP Manager

The ViP Manager software used to program the number keypad module using a computer is available on the website **pro.comelitgroup.com**.

The main functions available are as follows:

- **Access code entry.** The access codes may be Permanent (always valid), metered (valid for a certain number of uses) or associated with a validity date. In the latter case, each code can be assigned a validity start/end date, dual daily time band and validity days.
- Each access code can be assigned up to **4 different actions** which will be carried out consecutively.
- **Call code entry.** The call function is enabled by default. It can be disabled.
- **Activation of playback of the corresponding audio message** when each button is pressed (e.g. if you press 2 on the number keypad, audio message “two” will be played).
- **Event log complete** with all information (activated codes, user that used them, users called, etc.). Up to 1275 events can be saved in the memory.
- **“Trade” function.** On specific days of the week and in specific time bands, simply pressing the key button (without entering any code) will activate the output associated with the keypad without an external clock.

Connections available for programming via ViP Manager



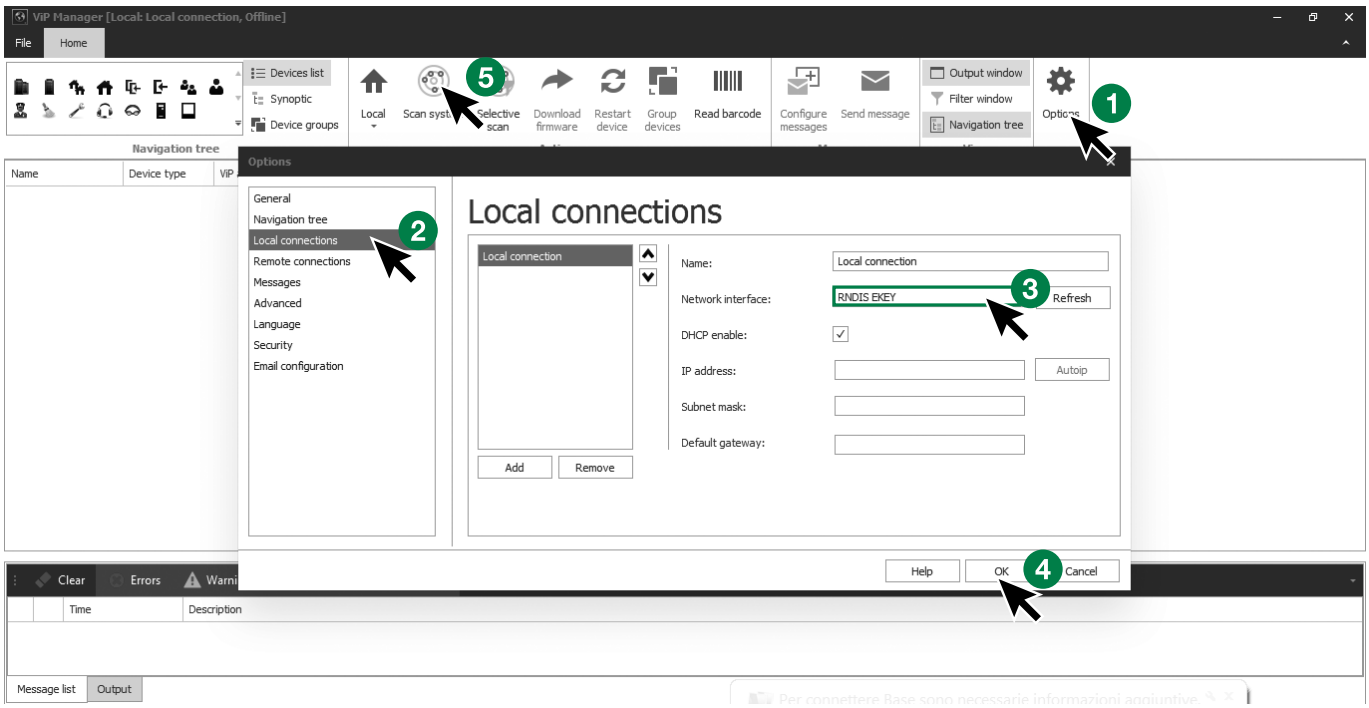
Searching for devices to configure

✓ *Connect the number keypad to the computer and open ViP Manager*

In **Options (1)/Local connections (2)** select the **Network interface (3).**

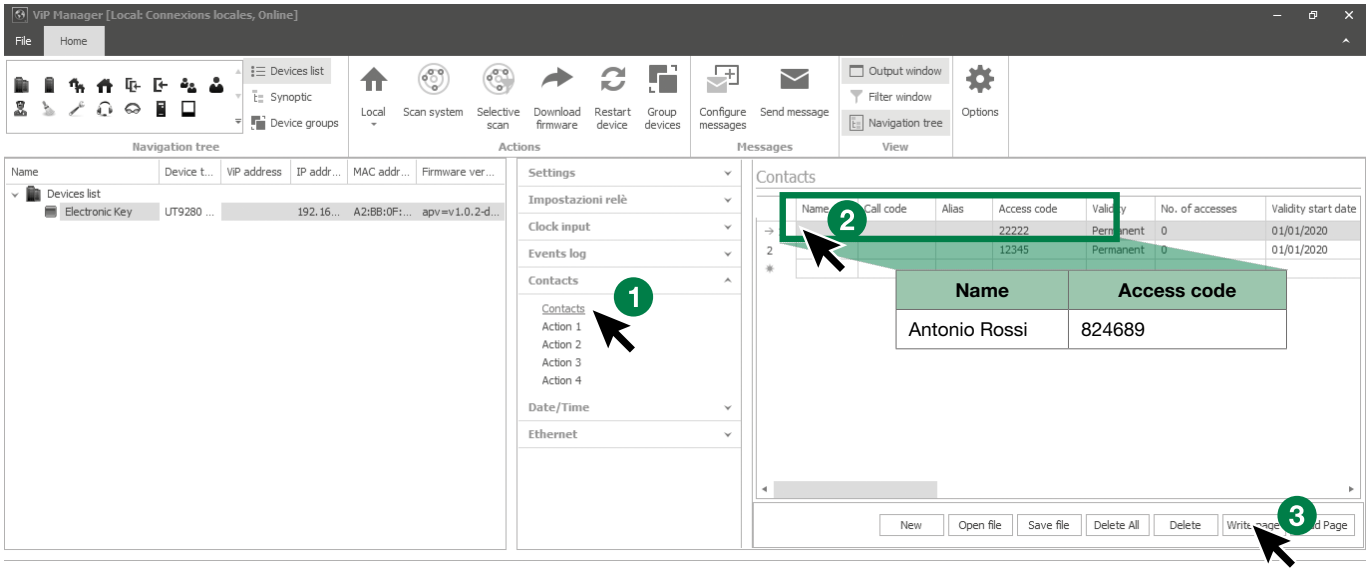
Confirm by clicking **OK (4)**.

Click **Scan system (5)** to start searching for devices.



Populating the contacts list

1. Select **Contacts/Contacts**
2. Enter the information required (for each contact you need to enter at least one “**access code**”; enter the “**Name**” if you also want to pair actions)
3. Press **“Write page”** to send the data to the number keypad module



System performance and layouts

For further information regarding system performance and to view installation layouts, click on the system type:

- **Simplebus2 audio/video with power supply unit 1210/1210A**
- **Simplebus2 audio/video with 4888C**

1st edition 01/2021
code 2G40002629

CERTIFIED MANAGEMENT SYSTEMS

ISO 9001 ISO 14001

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