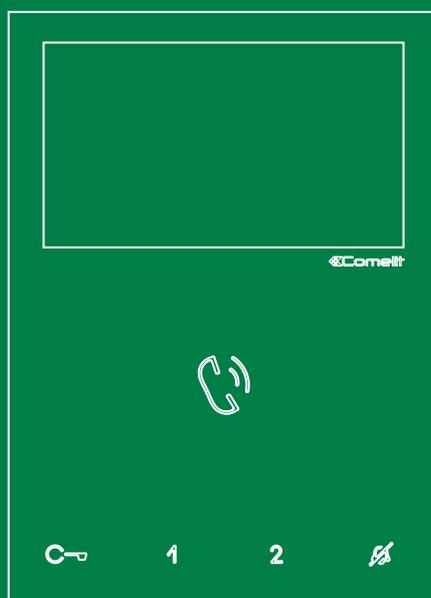


EN

TECHNICAL
MANUAL



Mini Handsfree monitor
Art. 6721W - Art. 6721W/BM

 **Comelit**[®]
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Table of contents

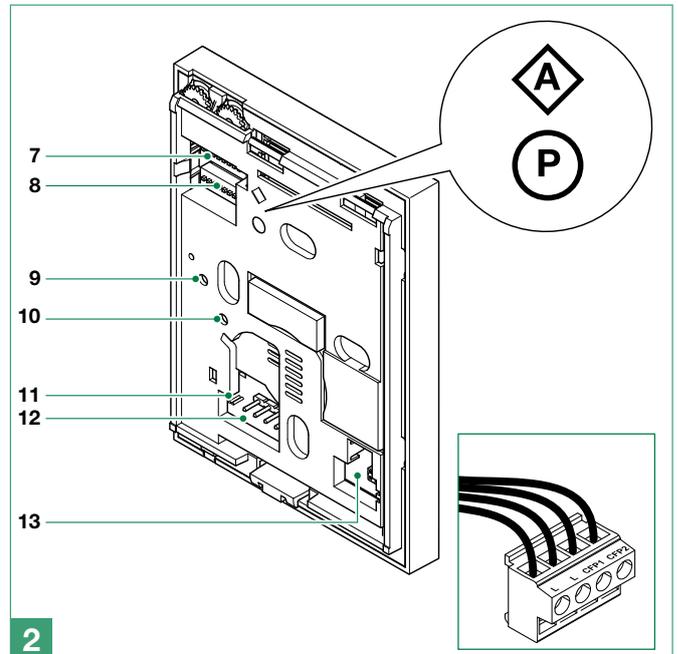
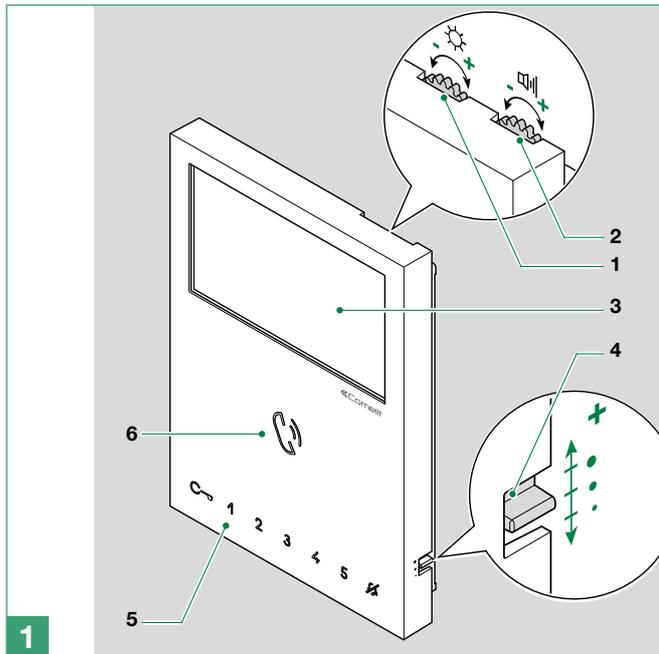


Monitor description	3
Description of buttons	4
Indicator LED description.....	4
Technical specifications	5
Installation	7
Removing / Fitting the terminal	8
Connections	8
Monitor configuration	9
Configuration of main and secondary internal units	9
Power supply configuration and management	9
Keys configuration	10
Basic configuration	10
Legend	10
Advanced configuration	11
Intercom calls: introduction	11
Internal general intercom call and external general intercom call: button programming	11
Intercom call to selective address: button programming	12
Selective intercom address	12
Assigning a selective address to the monitor.....	12
Deleting the selective address of the monitor.	12
Generic actuator, Addressable actuator	13
Generic actuator : button programming	13
Addressable actuator : button programming	13
Other functions: button programming	14
Programming range	14
Changing monitor ringtones	15
Programming reset	15
Addressing table	16
System performance and layouts	16

Monitor description

The Mini Handsfree series is comprised of hands-free monitors that can be used in “Building Kit” (exclusively 2 wire), Simplebus Top and Kit Video systems.

- Article 6721W is a colour monitor equipped as standard with 5 buttons (3 additional buttons can be added with the accessory Art. 6734W)
- Article 6721W/BM is a colour monitor equipped as standard with 5 buttons (3 additional buttons can be added with the accessory Art. 6734W) and magnetic induction audio amplification. Not supplied with backplate 6710.



1. Brightness control

- ▶ To increase the value, turn clockwise

2. Loudspeaker volume control

- ▶ To increase the value, turn clockwise

3. 4.3" LCD colour screen

4. Call volume adjustment (high - medium - low)

5. Soft-touch keys

6. Speaker and audio activation key

7. S1 ⬠ Micro-switches for user code setting. **“Addressing table”**

8. S2 ⊕ Micro-switches for programming keys and functions

DIP 1-2-3-4 for key function programming

DIP 5-6 access to programming

DIP 7 for management of power supply voltage, see **“Monitor configuration”**

DIP 8 for main and secondary monitor setting, see **“Monitor configuration”**

9. Factory setting - **DO NOT CHANGE!**

10. Factory setting - **DO NOT CHANGE!**

11. CV 5 Jumper for video closure. In systems with more than one monitor connected in cascade, only the monitor furthest away must have CV5 closed.

12. Pin for securing terminal block

13. Space for housing additional keys (Art. 6734W)

Terminal block for system connection

LL Bus line connection terminals

CFP1 CFP2 Outside door call input

Description of buttons

- ▶ Press the desired button once to activate the associated function.



Wait for approximately 1 sec. before pressing the same button again.



AUDIO ACTIVATION KEY

Press the button to answer an incoming call.

HANDS-FREE MODE ACTIVATION/DEACTIVATION

On receipt of a call, the audio will be activated automatically.

- ▶ A long press enables/disables the Hands-Free mode (10 s.)



LOCK RELEASE KEY

Use this key to open the corresponding door lock.

1

ACTUATOR KEY (programmable*)

Allows activation of the associated relay.

2

SELF-IGNITION KEY (programmable*)

Allows ignition of the external video unit, and therefore viewing of the external image.



PRIVACY KEY

The ringtone will be silenced on receipt of a call from the external unit and from the switchboard.

3 4 5

ADDITIONAL KEYS

Art. 6734W Additional buttons kit - can be purchased separately.

(*) Buttons may be programmed as:

- **DOCTOR MODE ACTIVATION KEY**
Allows automatic operation of the associated lock-release on receipt of a call from an external unit.
 - ▶ To activate/deactivate the Doctor mode, press the button programmed for this function.
- **INTERCOM CALL KEY**
Allows a call from one internal unit to one or more internal units.
- **CALL TO A MAIN OR SECONDARY SWITCHBOARD KEY**
- **PRIORITY CALL TO SWITCHBOARD ("PAN") KEY**
- **CALL TO CARETAKER DOOR-ENTRY PHONE KEY**

Indicator LED description



FLASHING LED: incoming call

STEADY LED (during call): audio activated

STEADY LED (when idle): Hands-Free mode activated



FLASHING LED: call in progress

1 flash after pressing button: confirms door opening

slow flashing: door open



FLASHING LED: device in programming mode

4 flashes: system engaged

STEADY LED: Privacy mode activated

3 flashes (every 5 sec): Doctor mode activated

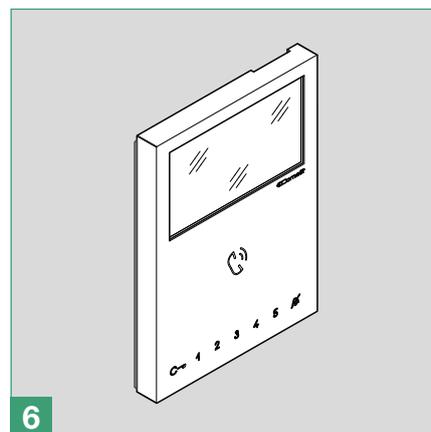
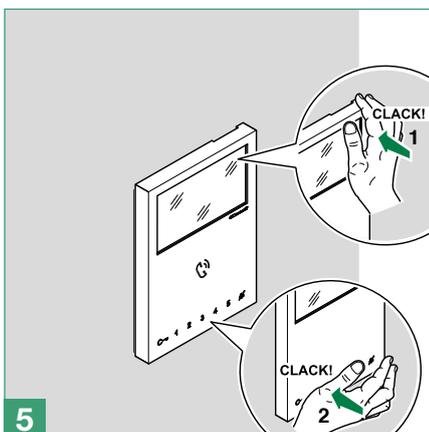
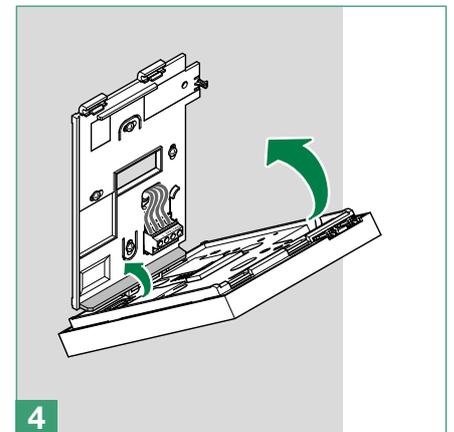
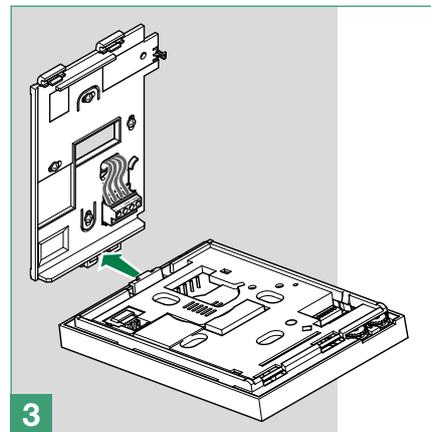
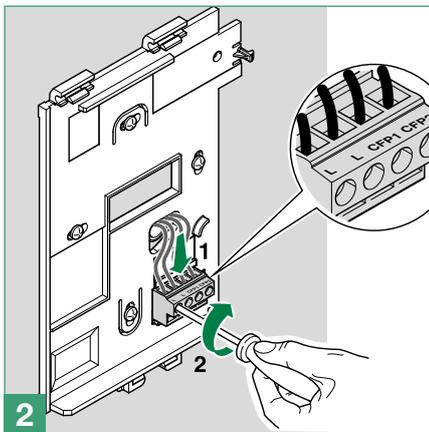
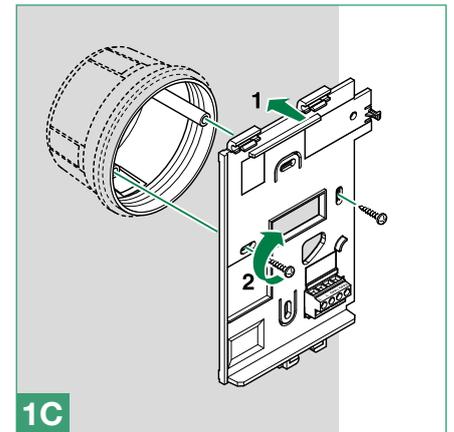
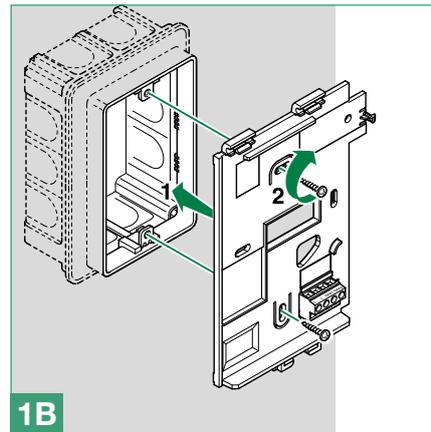
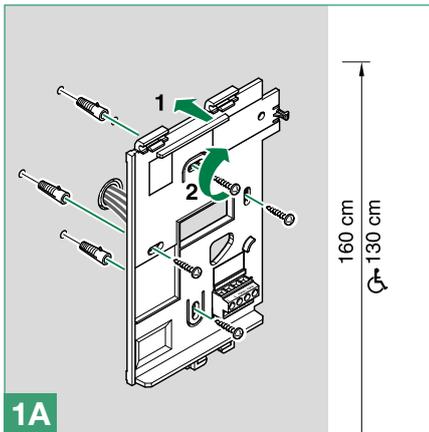
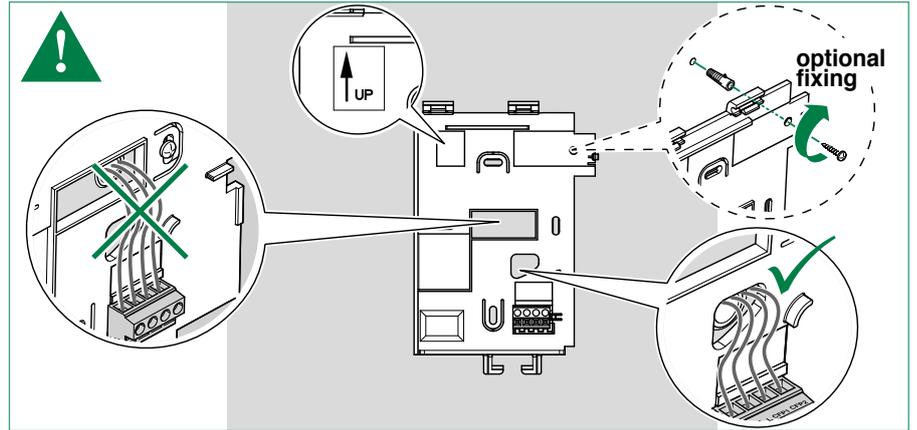
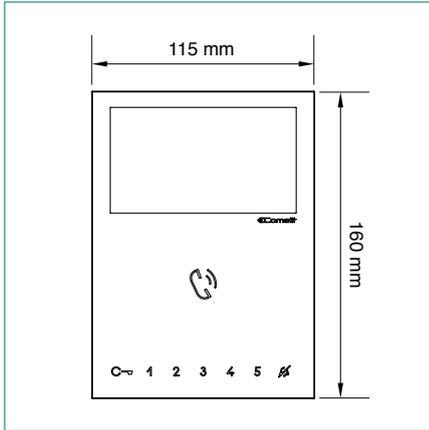
Technical specifications

MAIN SPECIFICATIONS		
	6721W	6721W/BM
Audio/video system	Yes	Yes
Wall-mounted	Yes	Yes
Desk base-mounted	Yes	Yes
Hands-free function	Yes	Yes
Audio amplification	-	Yes
Type of display	LCD	LCD
Display size (inches)	4,3" 16/9	4,3" 16/9
Display resolution (H x V)	480x272pixel	480x272pixel
B/W or colour display	Color	Colors
Product colour	White	White
Sensitive Touch technology	Yes	Yes
Total buttons	5	5
Additional buttons	3	3
LED signaling	3	3
Backlighting color	White	White
FUNCTIONS		
Actuator control function	Yes	Yes
Self-ignition	Yes	Yes
Switchboard call function	Yes	Yes
Panic call	Yes	Yes
Intercom function	Yes	Yes
Selective intercom call	Yes	Yes
Call to multiple addresses	Yes	Yes
Privacy function	Yes	Yes
Doctor	Yes	Yes
Floor door call function	Yes	Yes
Electronic bell	Yes	Yes
Customisable ringtone	Yes	Yes
Receiving text messages	-	Yes
Images reception	-	Yes
HARDWARE SPECIFICATIONS		
Removable terminals	Yes	Yes
SETTINGS		
Loudspeaker volume control	Yes	Yes
Microphone volume control	Yes	Yes
Ringtone volume control	Yes	Yes
Display brightness control	Yes	Yes
Display contrast control	Yes	Yes
Display colour control	Yes	Yes
GENERAL INFO		
Product height (mm)	160	160
Product width (mm)	115	115
Product depth (mm)	22	22

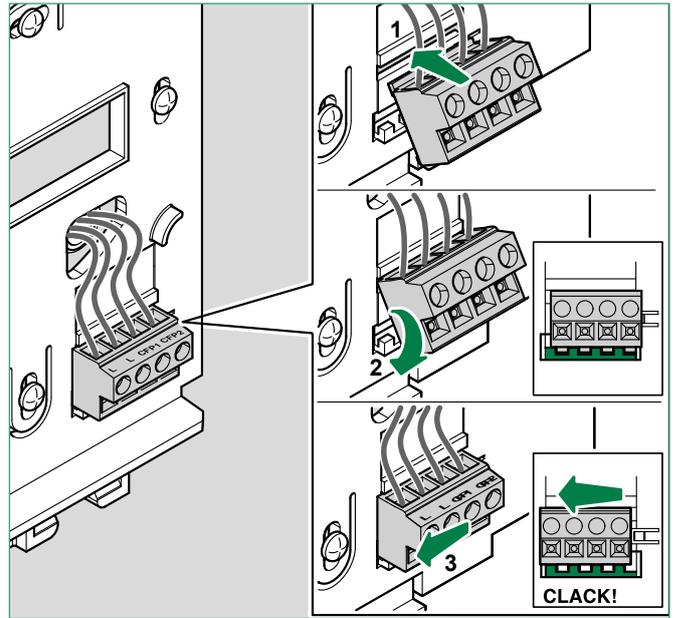
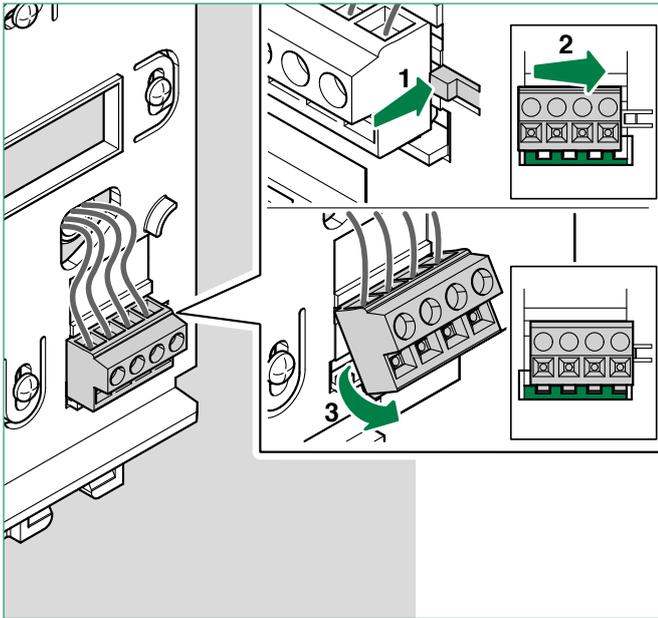
TECHNICAL SPECIFICATIONS**6721W****6721W/BM**

Power supply voltage	22÷28Vdc	22÷28Vdc
Absorption	2	2
Maximum current absorption (mA)	325	325
Microphone	6mm omni-direction	6mm omni-direction
Loudspeaker	36mm 40Ohm 1W	36mm 40Ohm 1W
IP Rating	30	30
Operating temperature (°C)	-5÷40	-5÷40
Relative humidity for operation	25 - 75 %	25 - 75 %
Video encoding	PAL / NTSC	PAL / NTSC
Product weight (g)	0,533	0,533
Clamps	L L CFP1 CFP2	L L CFP1 CFP2

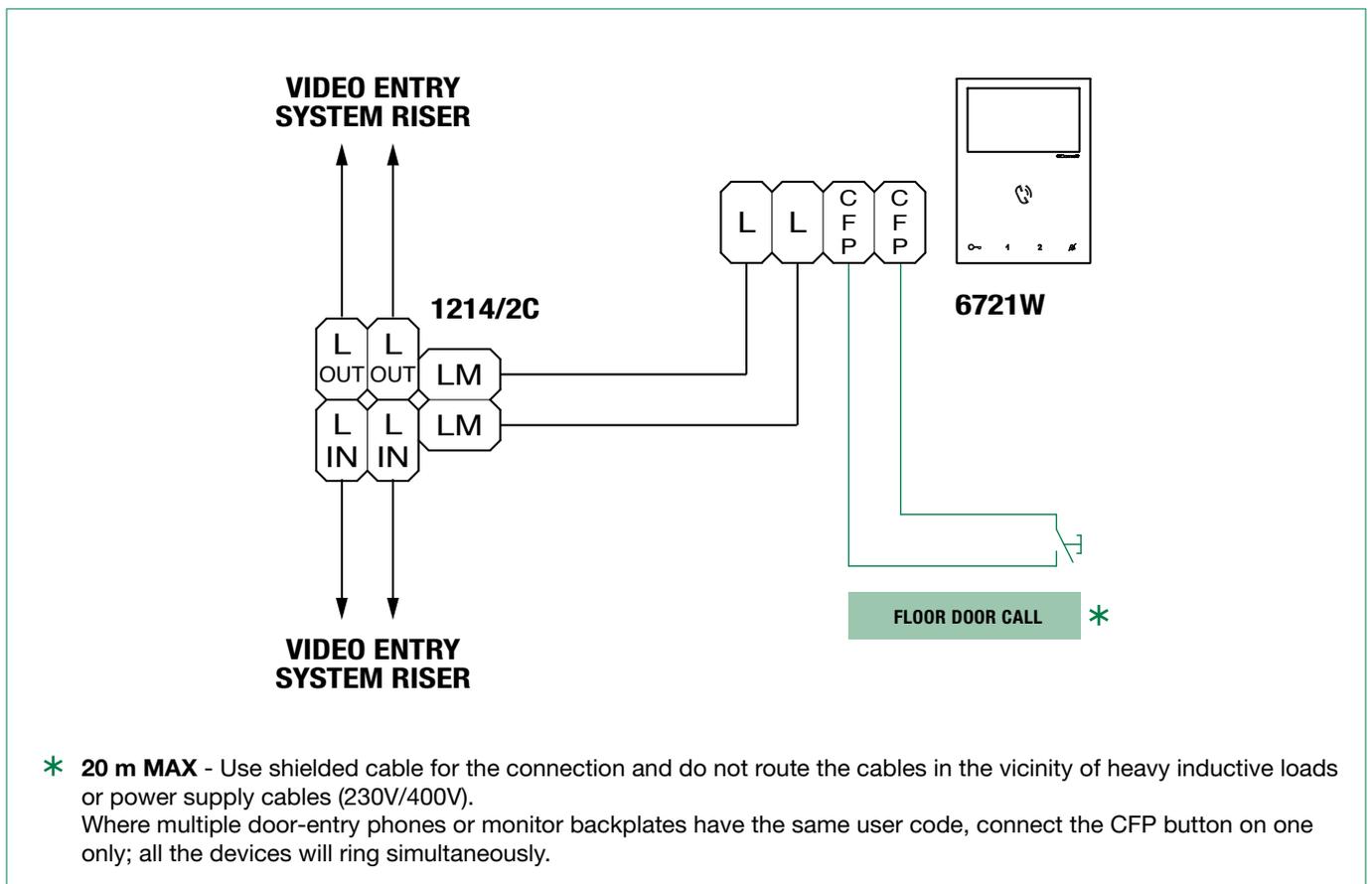
Installation



Removing / Fitting the terminal



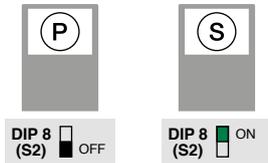
Connections



Monitor configuration

Configuration of main and secondary internal units

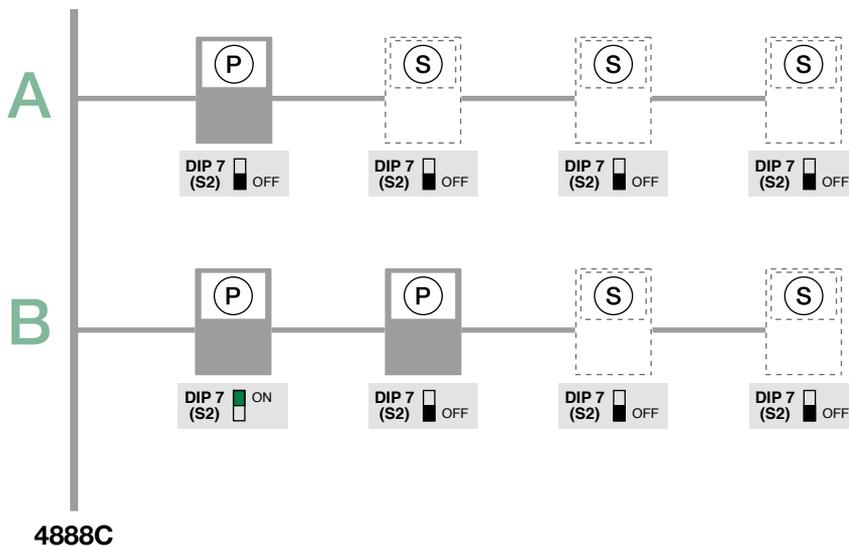
- ▶ To configure an internal unit as the **main unit**, set **DIP 8** of **S2** to **OFF**
- ▶ To configure an internal unit as a **secondary unit**, set **DIP 8** of **S2** to **ON**



In systems with Art. 1209 or Art. 1210, you can configure a maximum of 1 main monitor, while in systems with Art. 4888C you can configure a maximum of 2 main monitors.

Power supply configuration and management

- ▶ For correct power management, the **DIP 7** of **S2** should be set in accordance with the type of system and its configuration:
 - **in systems with power supply units 1209 and 1210:** always set the **DIP 7** of **S2** to **ON**
 - **in systems with power supply unit 4888C:** for secondary internal units, always set the **DIP 7** of **S2** to **OFF**, for main internal units, follow the indications given in the examples in the figure below:
 - 1 main internal unit
 - 2 main internal units



Keys configuration

By default the buttons control the functions in row **A** ("Basic configuration" table).

It is possible to change the default configuration of the keys by changing the positions of the S2 DIP switches 1-2-3-4 on the rear of the monitor to one of the combinations (B-P) proposed in the table. All the keys will change function.

Basic configuration

	S2 DIP-switch				Mini Handsfree			+ Art. 6734W			
	DIP 1	DIP 2	DIP 3	DIP 4		1	2	3	4	5	
A	OFF	OFF	OFF	OFF	▶	APRIP	ACT	AI	CCS	D	PAN
B	ON	OFF	OFF	OFF		APRIP	CCS	AI	INT	INTb	D
C	OFF	ON	OFF	OFF		APRIP	INT	AI	INTb	ACT	CCS
D	ON	ON	OFF	OFF		APRIP	ACT	CCS	CCP	PAN	K
E	OFF	OFF	ON	OFF		ACT	ACT	ACT	ACT	ACT	ACT
F	ON	OFF	ON	OFF		APRIP	INT	ACT	CCS	CCP	INTb
G	OFF	ON	ON	OFF		APRIP	AI	D	K	CCS	CCP
H	ON	ON	ON	OFF		APRIP	INTb	INT	AI	INT	PAN
I	OFF	OFF	OFF	ON		APRIP	CCS	PAN	D	AI	INTb
J	ON	OFF	OFF	ON		APRIP	K	CCS	PAN	CCP	AI
K	OFF	ON	OFF	ON		APRIP	CCP	K	PAN	ACT	INT
L	ON	ON	OFF	ON		APRIP	PAN	CCP	CCS	K	ACT
M	OFF	OFF	ON	ON		APRIP	INTb	AI	INT	ACT	D
N	ON	OFF	ON	ON		APRIP	INT	INT	INT	INT	INT
P	OFF	ON	ON	ON		NULL	NULL	NULL	NULL	NULL	NULL
	ON	ON	ON	ON		PROG					

Legend

APRIP	Lock-release	<i>Short press of the key</i>
ACT	Actuator	
AI **	Self-ignition	
CCP *	Call to main switchboard	
CCS *	Call to secondary switchboard	
K	Caretaker door-entry phone call	
PAN *	Priority call to switchboard	
INT	General or selective programmable intercom call <i>Standard single-family call for KIT and Simplebus Top.</i>	
INTb	Two-family intercom call - <i>For Kit only</i>	
NULL	No function	
D **	Doctor	<i>Long press of the key</i>
PROG	With these settings of the S2 DIP-switches, the buttons control the programmed functions as in the "Advanced configuration".	

* Cannot be used in kit systems

** A long press enables/disables the function

	DIP-switch on
	DIP-switch off

Advanced configuration

If the basic configuration settings do not reflect requirements, the buttons can be programmed differently by carrying out the steps below.

After programming, set S2 DIP switches 1-2-3-4 (PROG) to ON. With these DIP-switch settings, the buttons control the programmed functions.

i The buttons that are NOT programmed control the functions in row A (table [“Basic configuration”](#)).

Intercom calls: introduction

From an internal unit you can send an intercom call to:

- **all devices of the same apartment** (internal general intercom call)
- **all devices of another apartment** (external general intercom call)
- **a single internal unit** of an apartment identified by a dedicated intercom address different to the address that identifies the apartment (intercom call to selective address).
- **a group of internal units** of the same apartment or another apartment identified by a dedicated intercom address different to the address that identifies the apartment (selective group intercom call).

i General and selective intercoms CANNOT be used together on the same riser.

Internal **general** intercom call and external general intercom call: button programming

1. Take note of the S1 DIP-switch settings.	
2. To enter programming mode, set S2 DIP switch 6 to ON. » the Privacy LED switches on	
3. Refer to the table “Basic configuration” and select a combination in which the intercom function is listed for the buttons you wish to program.	Example:
4. Set DIP switch S1 according to the call address of the desired apartment. See “Addressing table”	
5. Press and release the button to be associated with the function. » <i>Correct procedure indication:</i> the Lock release LED flashes for a few seconds and a confirmation tone sounds. » <i>Procedure error indication:</i> the Audio LED flashes for few seconds and an error tone sounds.	
6. Exit programming mode by setting S2 DIP switch 6 to OFF. » the Privacy LED switches off	
7. Set S2 DIP switches 1-2-3-4 to ON.	
8. Return S1 DIP switches to the original combination.	

Intercom call to selective address: button programming

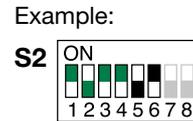
✓ It is necessary to carry out the 3 operations described in the paragraph "Assigning a selective address to the monitor".

1. Take note of the S1 DIP-switch settings.

2. To enter programming mode, set S2 **DIP switch 6** to ON.
» the Privacy LED switches on.



3. Refer to the table "**Basic configuration**" and set on S2 a combination in which the intercom function associated with the buttons you wish to program appears.

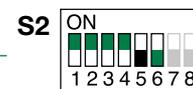


4. The S1 DIP switches according to the **selective** address of the internal unit you wish to call. Table B.

5. Press and release the button to be associated with the function.

- » *Correct procedure indication:* the Lock release LED flashes for a few seconds and a confirmation tone sounds.
- » *Procedure error indication:* the Audio LED flashes for few seconds and an error tone sounds.

6. Exit programming mode by setting S2 **DIP switch 6** to OFF.
» the Privacy LED switches off.



7. Set S2 **DIP switches 1-2-3-4** to ON.

8. Return S1 DIP switches to the original combination.

Selective intercom address

You must set the intercom address on all the internal units of the riser.
You can assign the same intercom address to a maximum of 3 internal units.
For group calls, select the desired intercom codes simultaneously (max. 3).

TABLE B

Code	S1 DIP switch ON	Code	S1 DIP switch ON
1	1	5	5
2	2	6	6
3	3	7	7
4	4	8	8

Assigning a selective address to the monitor

Take note of the S2, S1 settings and restore on completion of programming

<p>1.</p> <p>Assign to the monitor one of the 8 available intercom codes in TABLE B.</p> <p>Example address 3.</p> <p>S1 </p>	<p>2.</p> <p>S2 </p>	<p>3.</p> <p></p> <p></p>
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Deleting the selective address of the monitor.

<p>1.</p> <p>Carry out the operations as shown in the figure.</p> <p>S1 </p> <p>S2 </p>	<p>2.</p> <p></p> <p></p>
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Generic actuator, Addressable actuator

Generic **actuator**: button programming

1. Take note of the S1 DIP-switch settings.	
2. To enter programming mode, set S2 DIP switch 6 to ON. » <i>the Privacy LED switches on</i>	
3. Refer to the table “Basic configuration” and set on S2 a combination in which the actuator function (ACT) associated with the buttons you wish to program appears.	<p>Example:</p>
4. Set all the S1 DIP switches to ON.	
5. Press and release the button to be associated with the function. » <i>Correct procedure indication: the Lock release LED flashes for a few seconds and a confirmation tone sounds</i> » <i>Procedure error indication: the Audio LED flashes for few seconds and an error tone sounds.</i>	
6. Exit programming mode by setting S2 DIP switch 6 to OFF. » <i>the Privacy LED switches off</i>	
7. Set S2 DIP switches 1-2-3-4 to ON.	
8. Return S1 DIP switches to the original combination.	

Addressable **actuator**: button programming

1. Take note of the S1 DIP-switch settings.	
2. To enter programming mode, set S2 DIP switch 6 to ON. » <i>the Privacy LED switches on</i>	
3. Refer to the table “Basic configuration” and set on S2 a combination in which the actuator function (ACT) associated with the buttons you wish to program appears.	<p>Example:</p>
4. The S1 DIP switches with eh desired code, according to “Addressing table”	
5. Press and release the button to be associated with the function. » <i>Correct procedure indication: the Lock release LED flashes for a few seconds and a confirmation tone sounds</i> » <i>Procedure error indication: the Audio LED flashes for few seconds and an error tone sounds.</i>	
6. Exit programming mode by setting S2 DIP switch 6 to OFF. » <i>the Privacy LED switches off</i>	
7. Set S2 DIP switches 1-2-3-4 to ON.	
8. Return S1 DIP switches to the original combination.	

Other functions: button programming

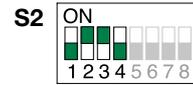
1. To enter programming mode, set **S2 DIP switch 6** to ON.

» the Privacy LED switches on

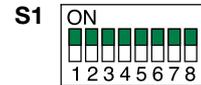


2. Refer to the table **“Basic configuration”** and set on **S2** a combination in which the function associated with the buttons you wish to program appears.

Example:



3. Set all the **S1** DIP switches to ON.



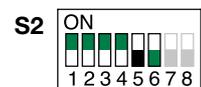
4. Press and release the button to be associated with the function.

» *Correct procedure indication:* the Lock release LED flashes for a few seconds and a confirmation tone sounds

» *Procedure error indication:* the Audio LED flashes for few seconds and an error tone sounds.

5. Exit programming mode by setting **S2 DIP switch 6** to OFF.

» the Privacy LED switches off



6. Set **S2 DIP switches 1-2-3-4** to ON.

Programming range



Take note of the S2, S1 settings and restore on completion of programming

	1.	2.	3.	4.
Range minimum address	<p>S1</p> <p>Set code.</p>	<p>S2</p>		
Range maximum address	<p>“Addressing table”</p>			
Enable range				<p>S2</p>
Disable range				
Deleting the range	<p>S1</p>	<p>S2</p>	<p>2 sec</p>	

Changing monitor ringtones

1. Press and hold C→ for 6 sec.
 - » a confirmation tone will sound
 - » the Privacy LED will flash to indicate "programming" mode.
- ✓ the procedure can only take place while the system is in standby; otherwise the Privacy LED will flash 4 times to inform the user that the system is engaged.
2. Press and release C→
 - Once** (1 confirmation tone is emitted) to change the ringtone for calls from the external unit.
 - Twice** (2 confirmation tones emitted) to change the switchboard ringtone.
 - 3 times** (3 confirmation tones are emitted) to change the ringtone for intercom calls made from the internal unit.
 - 4 times** (4 confirmation tones are emitted) to change the floor door call ringtone.

Any further pressing of the C→ button repeats the sequence described above.
3. Press and release 1 to scroll through the various available ringtones in sequence.
4. Press 2 to confirm selection of the last ringtone heard and to exit (at any time) change monitor ringtone mode.
 - » one confirmation tone is emitted
 - » the Privacy LED switches off
5. Repeat steps 1 to 4 to change the other ringtones.

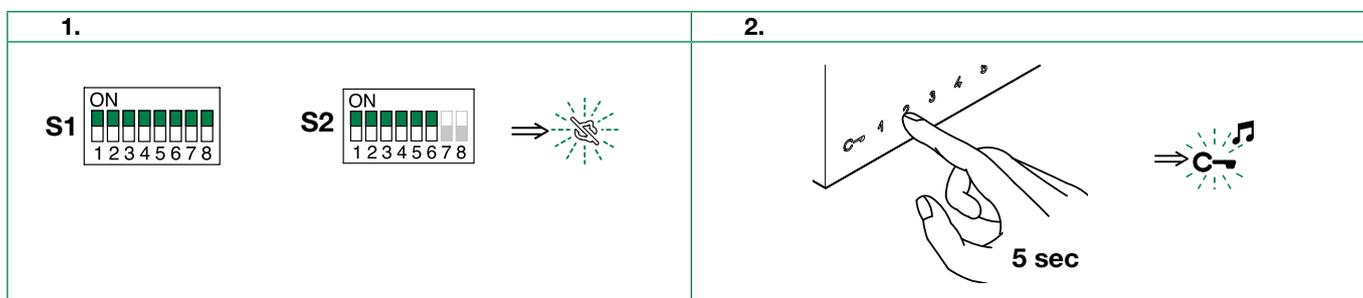
Programming reset

Factory settings:

- Button functions for the S2 DIP switches 1-2-3-4 combination
- Intercom address absent
- Range function and min./max. addresses absent
- Ringtone reset



Take note of the S2, S1 settings and restore on completion of programming



Addressing table

Code	DIP switch ON														
1	1	31	1,2,3,4,5	61	1,3,4,5,6	91	1,2,4,5,7	121	1,4,5,6,7	151	1,2,3,5,8	181	1,3,5,6,8	211	1,2,5,7,8
2	2	32	6	62	2,3,4,5,6	92	3,4,5,7	122	2,4,5,6,7	152	4,5,8	182	2,3,5,6,8	212	3,5,7,8
3	1,2	33	1,6	63	1,2,3,4,5,6	93	1,3,4,5,7	123	1,2,4,5,6,7	153	1,4,5,8	183	1,2,3,5,6,8	213	1,3,5,7,8
4	3	34	2,6	64	7	94	2,3,4,5,7	124	3,4,5,6,7	154	2,4,5,8	184	4,5,6,8	214	2,3,5,7,8
5	1,3	35	1,2,6	65	1,7	95	1,2,3,4,5,7	125	1,3,4,5,6,7	155	1,2,4,5,8	185	1,4,5,6,8	215	1,2,3,5,7,8
6	2,3	36	3,6	66	2,7	96	6,7	126	2,3,4,5,6,7	156	3,4,5,8	186	2,4,5,6,8	216	4,5,7,8
7	1,2,3	37	1,3,6	67	1,2,7	97	1,6,7	127	1,2,3,4,5,6,7	157	1,3,4,5,8	187	1,2,4,5,6,8	217	1,4,5,7,8
8	4	38	2,3,6	68	3,7	98	2,6,7	128	8	158	2,3,4,5,8	188	3,4,5,6,8	218	2,4,5,7,8
9	1,4	39	1,2,3,6	69	1,3,7	99	1,2,6,7	129	1,8	159	1,2,3,4,5,8	189	1,3,4,5,6,8	219	1,2,4,5,7,8
10	2,4	40	4,6	70	2,3,7	100	3,6,7	130	2,8	160	6,8	190	2,3,4,5,6,8	220	3,4,5,7,8
11	1,2,4	41	1,4,6	71	1,2,3,7	101	1,3,6,7	131	1,2,8	161	1,6,8	191	1,2,3,4,5,6,8	221	1,3,4,5,7,8
12	3,4	42	2,4,6	72	4,7	102	2,3,6,7	132	3,8	162	2,6,8	192	7,8	222	2,3,4,5,7,8
13	1,3,4	43	1,2,4,6	73	1,4,7	103	1,2,3,6,7	133	1,3,8	163	1,2,6,8	193	1,7,8	223	1,2,3,4,5,7,8
14	2,3,4	44	3,4,6	74	2,4,7	104	4,6,7	134	2,3,8	164	3,6,8	194	2,7,8	224	6,7,8
15	1,2,3,4	45	1,3,4,6	75	1,2,4,7	105	1,4,6,7	135	1,2,3,8	165	1,3,6,8	195	1,2,7,8	225	1,6,7,8
16	5	46	2,3,4,6	76	3,4,7	106	2,4,6,7	136	4,8	166	2,3,6,8	196	3,7,8	226	2,6,7,8
17	1,5	47	1,2,3,4,6	77	1,3,4,7	107	1,2,4,6,7	137	1,4,8	167	1,2,3,6,8	197	1,3,7,8	227	1,2,6,7,8
18	2,5	48	5,6	78	2,3,4,7	108	3,4,6,7	138	2,4,8	168	4,6,8	198	2,3,7,8	228	3,6,7,8
19	1,2,5	49	1,5,6	79	1,2,3,4,7	109	1,3,4,6,7	139	1,2,4,8	169	1,4,6,8	199	1,2,3,7,8	229	1,3,6,7,8
20	3,5	50	2,5,6	80	5,7	110	2,3,4,6,7	140	3,4,8	170	2,4,6,8	200	4,7,8	230	2,3,6,7,8
21	1,3,5	51	1,2,5,6	81	1,5,7	111	1,2,3,4,6,7	141	1,3,4,8	171	1,2,4,6,8	201	1,4,7,8	231	1,2,3,6,7,8
22	2,3,5	52	3,5,6	82	2,5,7	112	5,6,7	142	2,3,4,8	172	3,4,6,8	202	2,4,7,8	232	4,6,7,8
23	1,2,3,5	53	1,3,5,6	83	1,2,5,7	113	1,5,6,7	143	1,2,3,4,8	173	1,3,4,6,8	203	1,2,4,7,8	233	1,4,6,7,8
24	4,5	54	2,3,5,6	84	3,5,7	114	2,5,6,7	144	5,8	174	2,3,4,6,8	204	3,4,7,8	234	2,4,6,7,8
25	1,4,5	55	1,2,3,5,6	85	1,3,5,7	115	1,2,5,6,7	145	1,5,8	175	1,2,3,4,6,8	205	1,3,4,7,8	235	1,2,4,6,7,8
26	2,4,5	56	4,5,6	86	2,3,5,7	116	3,5,6,7	146	2,5,8	176	5,6,8	206	2,3,4,7,8	236	3,4,6,7,8
27	1,2,4,5	57	1,4,5,6	87	1,2,3,5,7	117	1,3,5,6,7	147	1,2,5,8	177	1,5,6,8	207	1,2,3,4,7,8	237	1,3,4,6,7,8
28	3,4,5	58	2,4,5,6	88	4,5,7	118	2,3,5,6,7	148	3,5,8	178	2,5,6,8	208	5,7,8	238	2,3,4,6,7,8
29	1,3,4,5	59	1,2,4,5,6	89	1,4,5,7	119	1,2,3,5,6,7	149	1,3,5,8	179	1,2,5,6,8	209	1,5,7,8	239	1,2,3,4,6,7,8
30	2,3,4,5	60	3,4,5,6	90	2,4,5,7	120	4,5,6,7	150	2,3,5,8	180	3,5,6,8	210	2,5,7,8	*240	5,6,7,8

NOTE: code 240 is reserved for the porter switchboard

System performance and layouts

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

- **Audio/video kit** for the creation of audio-video systems for *individual residences*
- **Building Kit audio/video system** for the creation of audio-video systems for *small apartment blocks*
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