

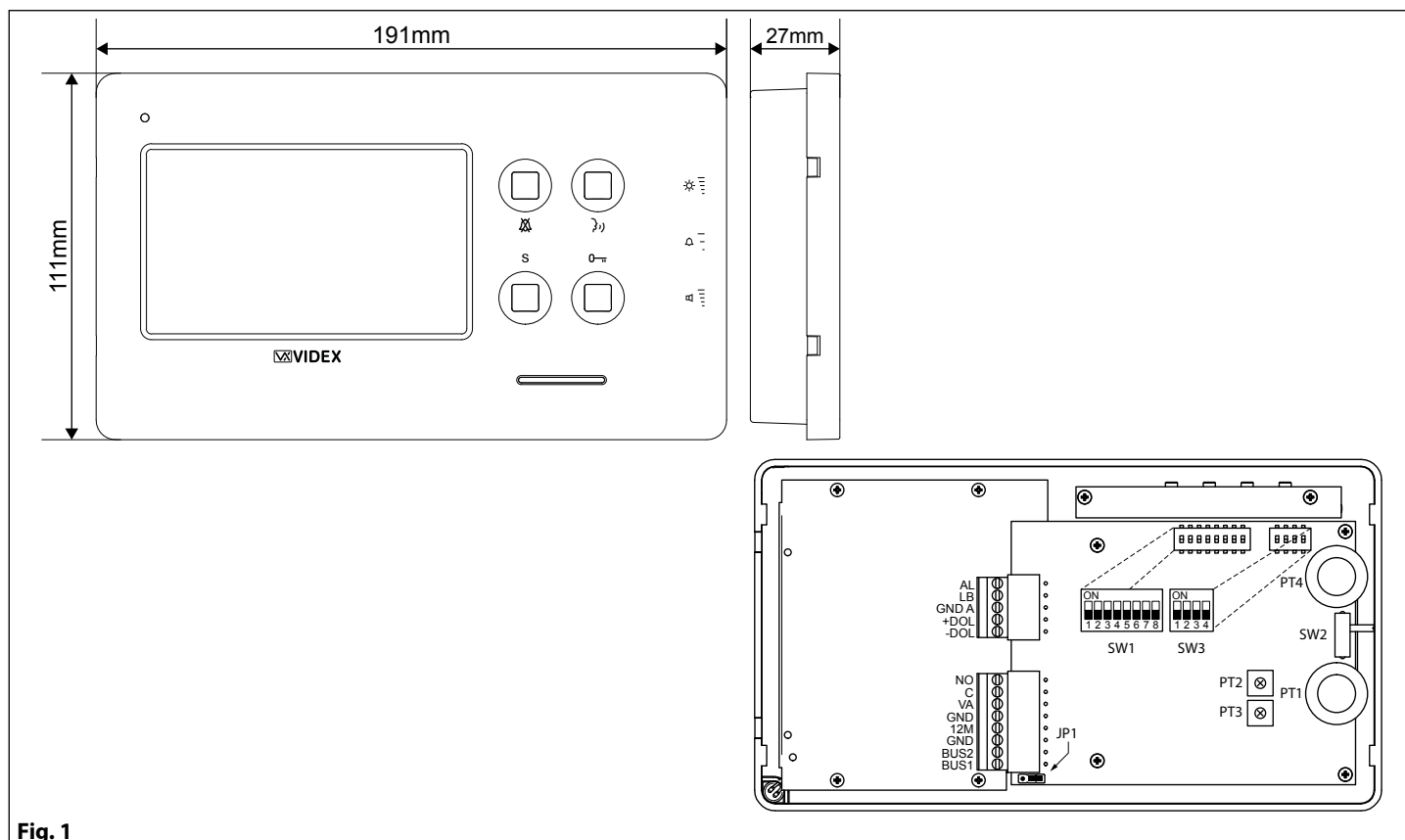
Art. 6488 4.3" hands free colour display digital videophone

Fig. 1

DESCRIPTION

An intelligent hands free videophone using 4.3" full colour active matrix LCD monitor for VX2300.

Including 4 buttons "service", "privacy/bus relay activation", "door-open/intercommunicating call" and "answer/camera recall" plus 3 LED's for visual indication of all functions.

Adjustments & programmable options: call tone volume on 3 levels (low, medium, high), picture hue, brightness and contrast, call tone melody, number of rings, privacy duration and address. Also includes a local bell function. The Art. 6488 is surface mount.

PUSH BUTTONS (FIG. 1)

S	Service push button. When pressed it links internally the terminals "C" and "NO" on the connection terminals.
	Privacy ON-OFF push button. To enable the function press this button when the videophone is in stand-by. The service is automatically disabled when the programmed time expires (the privacy duration time can be programmed) or manually by pressing again the button. Activate bus relay board Art. 2305 push button. To activate a bus relay, during a conversation, press this button quickly as many times as the address value of the relay. Camera switch push button. If the door station uses the Art. 4303N plus the Art. 4330N, pressing this button during a conversation switches the video signal coming from the camera module to the video signal coming from the camera module input for external camera. During the conversation, press and keep pressed the button until the camera switches. Repeat the operation to switch back to main camera. Call Reject Button. During an incoming call, press this button to reject the call. The visitor doesn't receive any warning of the call rejected.
0	Door open push button. Press this button to open the door when you are in conversation or you are receiving a call. Intercommunication push button. For an intercommunicating call, press as many times as the extension or address value to call (see SW3 Intercommunication Settings).

PUSH BUTTONS (FIG. 1)

})	Answer push button. On an incoming call, operation of this button allows the user to answer and converse with the visitor. The relevant LED will illuminate.
	Switch off button. With the system switched on (monitor on), momentary operation of the button will switch the video monitor off. The videomonitor will also automatically switch off after a time delay if the button is not pressed. The relevant LED will switch off.
	Camera Recall push button. Press as many times as the DEVICE N. of the door station to switch on.
	Simplex button. Pressing and holding the button for more than 3 seconds will switch the videomonitor into SIMPLEX speech mode. Press and hold the button to speak to the caller (}) LED will flash rapidly), release the button to listen (}) LED will flash slowly). If the button is not pressed for 10 seconds the videomonitor will switch off. The videomonitor will revert to duplex speech when another call is made.

LEDs (FIG. 1)

LED 	Privacy on LED It illuminates when the privacy service is enabled.
LED 	Generic use LED It is controlled from the terminals "+DOL" and "-DOL". Normally used to signal the door status (open or closed).
LED })	ON LED It illuminates when the videophone is switched ON.

CONTROLS (FIG. 1 AND FIG. 2)

 PT4	Speech volume control (sliding wheel).
 SW2	Call tone volume control (3 levels).
 PT1	Brightness control (sliding wheel).
PT2	Colour intensity control trimmer (rotate left to increase or right to decrease).
PT3	Contrast control trimmer* (rotate left to increase or right to decrease). *Not available in some LCD versions.
JP1	Bus termination switch (lower position = BUS termination active, upper position = BUS termination disabled).

PROGRAMMING

The videophone setup consists of the following settings:

- Number of rings;
- Melody selection;
- Privacy duration;
- Unit address (1..127, switches 1 to 7 of SW1);
- Bus Termination (open or close, jumper JP1);
- Intercommunication mode (between apartments or within apartment, switch 1 of SW3);
- Extension address (1..4, switches 2,3 of SW3);
- Slave mode (switch 4 of SW3).

The programming of the number of rings, melody and privacy duration are carried out through the videophone push buttons, all other settings are carried out on the two dip-switch banks (SW1 and SW3) on the rear side of the video monitor (all the settings can be done without opening the videophone).

It is necessary to remove temporary the power supply after making any programming changes.

NUMBER OF RINGS, MELODY SELECTION AND PRIVACY DURATION

All programming options are available only when the system is in stand-by.

NUMBER OF RINGS.

- Keep pressed the }) button until the two LEDs }) and  switch on.
- Press the }) button for the number of times corresponding to the required number of rings to set. A beep confirms each time the button is pressed.
- Once the required number of rings is reached, wait approx 5 seconds for the two LED's to switch off. The new value is stored.

MELODY SELECTION

- Keep pressed the  button until the two LEDs }) and  switch on. The unit emits the current selected melody.
- Press the  button and keep it pressed to listen the next melody. Repeat the operation until the required melody is found.
- Once the required melody is found, wait approx 5 seconds for the two LED's to switch off. The new melody is set.

PRIVACY DURATION

- Keep pressed the  button until the two LEDs  and  are switched on.
- Press the  button for the number of times corresponding to the required privacy duration to set. Each time the button is pressed, the duration is increased by 15 minutes: i.e. to set 2 hours, press the button 8 times.
- Once the required privacy time is reached, wait approx 5 seconds for the two LED's to switch off. The new duration is set.

VIDEOPHONE ADDRESS – SW1.1..7



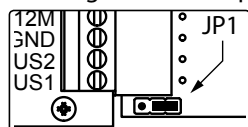
The table below shows how to set the address of the videophone. Considering that ON = 1 and OFF = 0, multiply each digit for the relevant decimal weight then sum values obtained to get the address: E.g. as highlighted in the table OFF,ON,OFF,OFF,ON, OFF,ON in binary is equal to 0100101 then multiplying each digit for the relevant decimal weight you obtain the address that is 37.

SWITCHES STATUS							BINARY CODE - DECIMAL WEIGHT							ADDRESS
7	6	5	4	3	2	1	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	1	0	0	4
OFF	ON	OFF	OFF	ON	OFF	ON	0	1	0	0	1	0	1	37
ON	ON	ON	ON	ON	ON	ON	1	1	1	1	1	1	1	127

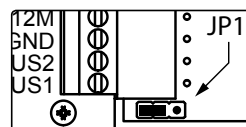
Note: The maximum number of units allowed is 100 but the address of each unit can be a value between 1 and 127.

VIDEOPHONE END OF LINE TERMINATION – JP1

Looking at the videophone from the rear:



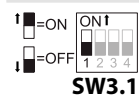
Move the jumper **JP1** to the right position to enable the bus termination.



Move the jumper **JP1** to the left position to disable the bus termination.

In case of more units (intercoms, videophones or video monitors) in a parallel connection (bus wires are connected to the terminals of the first unit then from this to the second and so on up to 4 units max) the BUS termination must be enabled only for the last unit in the chain while on all other units it must be set to disabled.

INTERCOMMUNICATION MODE – SW3.1



This switch establishes the intercommunication mode: in OFF position (default) intercommunication is between units in the same apartment (same addresses but different extension); in ON position the intercommunication is between units in different apartments (different addresses).

On installations where there are more than one intercom/videophone in the same apartment and intercommunication between different apartments is required, only one intercom/videophone may be set with this function (SW3.1=ON, SW3.2=OFF, SW3.3=OFF). The other intercom/videophones in the apartment must be set for local intercommunication with extension addresses "2-4" (slaves). From the intercom/videophone set for intercommunication with other apartments it will not be possible to intercommunicate within the apartment but slave extensions 2-4 will be able to intercommunicate with each other within the apartment.

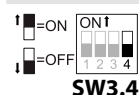
EXTENSION NO – SW3.2..3



If the intercommunication between apartments is enabled (switch 1 of SW3 = ON) leave these two switches in default position (both to OFF). Otherwise, if the intercommunication is between the same apartment (switch 1 of SW3 = OFF), set the extension addresses starting always from 1. During the external call, all video monitors in the same flat will ring but the video will be shown only from the videophone with extension address 1.

2	3	EXTENSION NO.
OFF	OFF	1 (default, master)
ON	OFF	2 (slave)
OFF	ON	3 (slave)
ON	ON	4 (slave)

SLAVE MODE – SW3.4



This set up concerns the answering mode of the video monitor when there is more than one unit (max 4) in the same apartment. OFF (default) = during a call, only the video monitor with extension 1 (master) will show the video. ON = the video monitor will be switched on independently of the extension address: in this case the video monitor must be supplied locally using a power supply Art. 2321 and connecting respectively BUS+ to terminal +VAUX and BUS- to terminal GND on the connection terminals (the local power supply is required for each black & white slave videophone or starting from the third slave).

videophone when they are all colour videophones).

If you set for one slave videophone, you must set ON the same switch also for the relevant master videophone.

SIGNALS ON CONNECTION TERMINALS

Signal	Description	
BUS1	Bus input	
BUS2	Bus input	
GND	Ground	
12M	+12Vdc power supply input for version with Memory Board option	
GND	Ground	
VA	Auxiliary power supply input (to be used when the switch 4 of SW3 is set to ON)	
C	Dry contact. Internally linked to NO when the S button is pressed.	Max 35Vdc, 10mA
NO	Dry contact. Internally linked to C when the S button is pressed.	
-DOL	Auxiliary LED power supply input (ground)	
+DOL	Auxiliary LED power supply input (+12Vdc)	
GND A	Ground output for use in combination with "AL" & "LB" active low inputs	
LB	Local bell input (active low)	
AL	Alarm input (not implemented yet)	

MEMORY BOARD

This device is also available in the version with memory board (Art. 6488/VM).

If you have that version, please refer to the "**6200, 6300, 6400 and 6700 Series Memory Board**" user manual for installation and use. The manual is available for download at the following link:

<https://www.dropbox.com/s/492p16btyqhxmup/66250782-EN.pdf?dl=0>



TECHNICAL SPECIFICATION

Housing/Mounting:	6400 Series Videophones / surface mount
Push buttons:	Yes, 4
Programming:	Yes, carried out by the buttons and the dip-switches located on the rear of the videophone
Controls:	Call tone volume, picture hue, brightness and contrast
Power Supply:	Supplied by the BUS line
Power consumption:	Stand-by: 0.2mA Operating: 115mA
Working Temperature:	-10 +50 °C

MANUFACTURER



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made in
ITALY

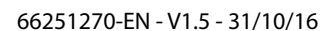
CUSTOMER SUPPORT

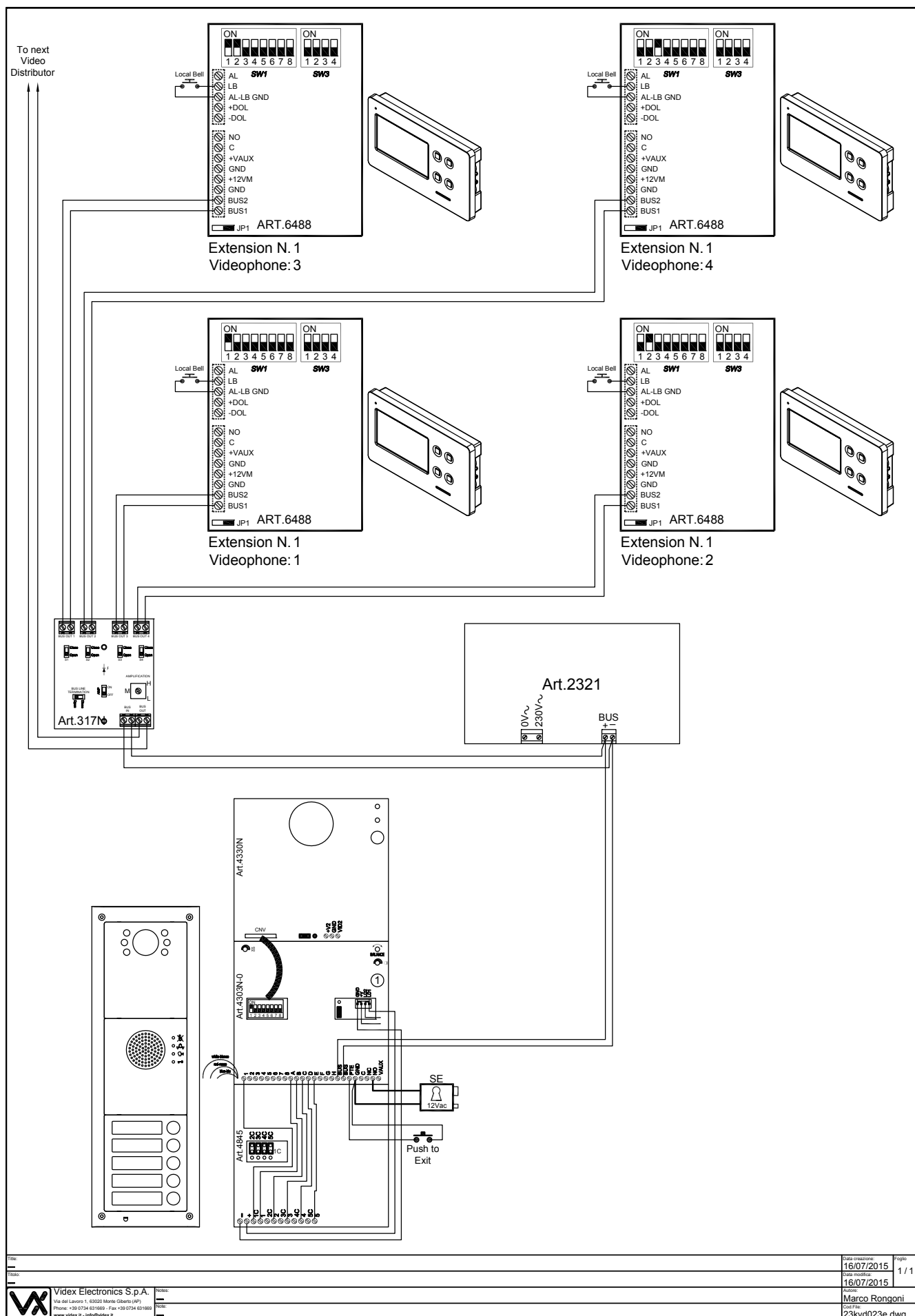
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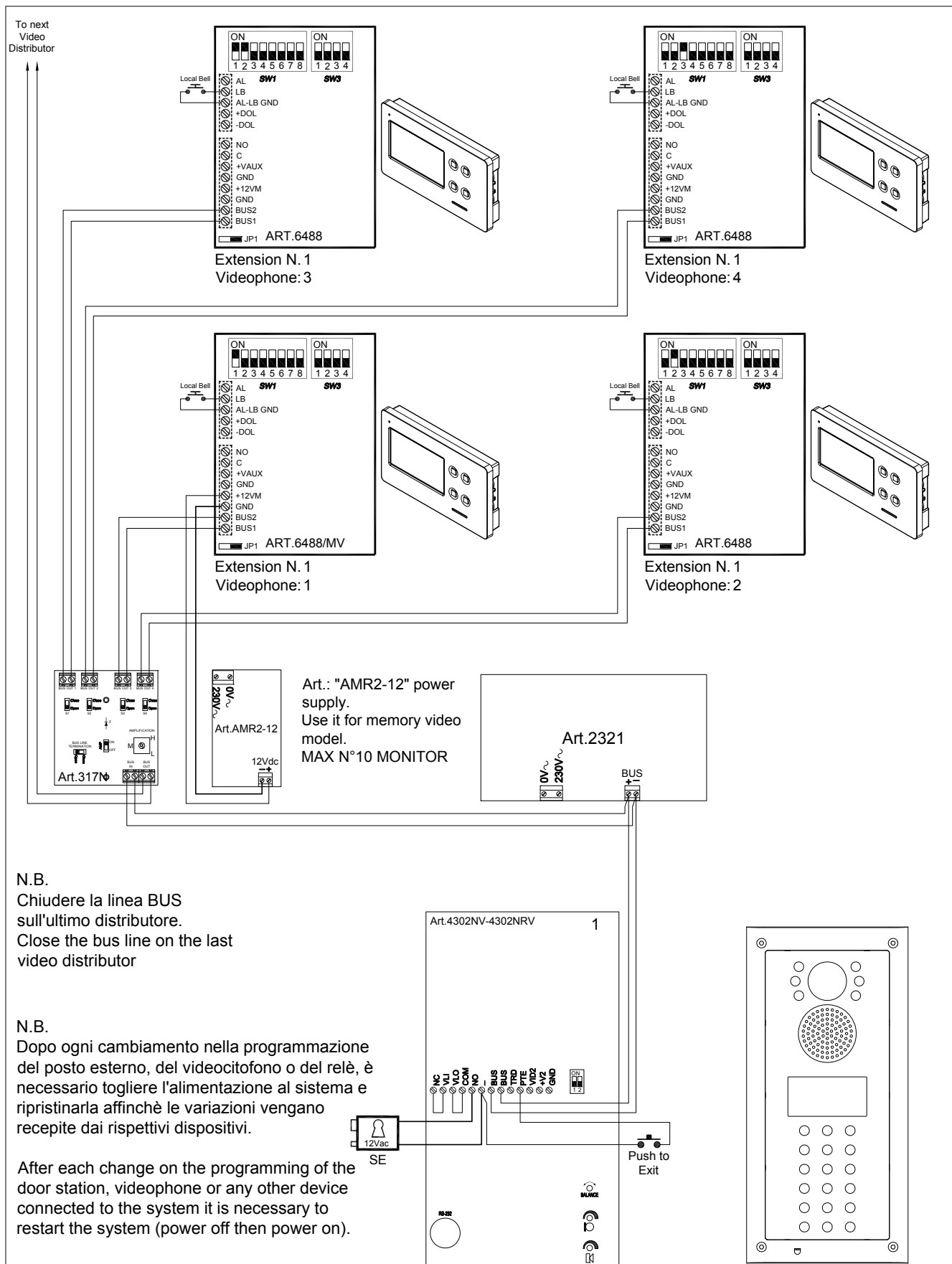
UK Customers:
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 Fax: 0191 224 1559



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Notes:

Note:

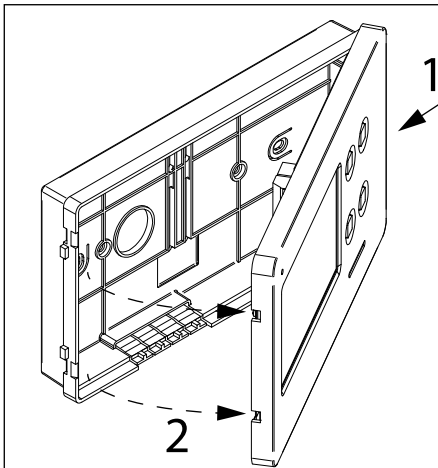


Fig. 1

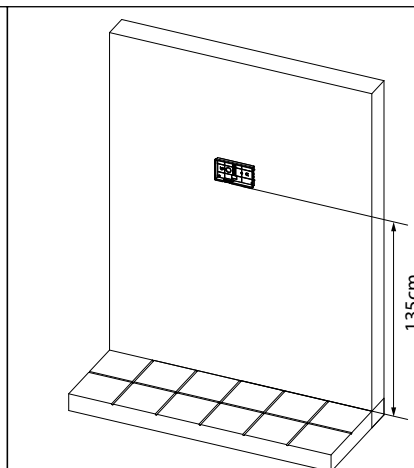


Fig. 2

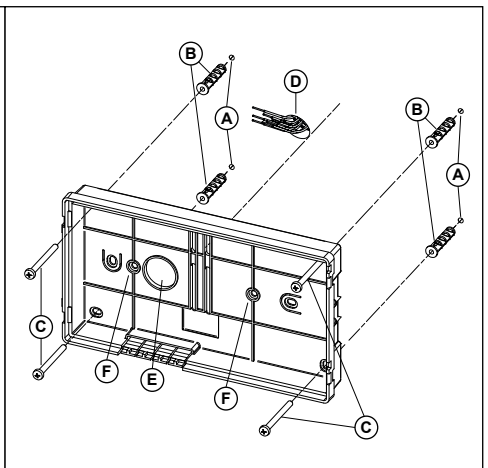


Fig. 3

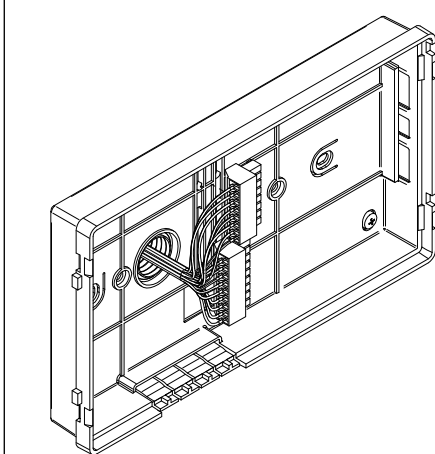


Fig. 4

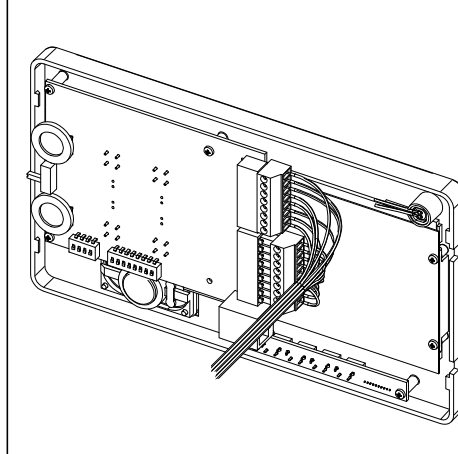


Fig. 5

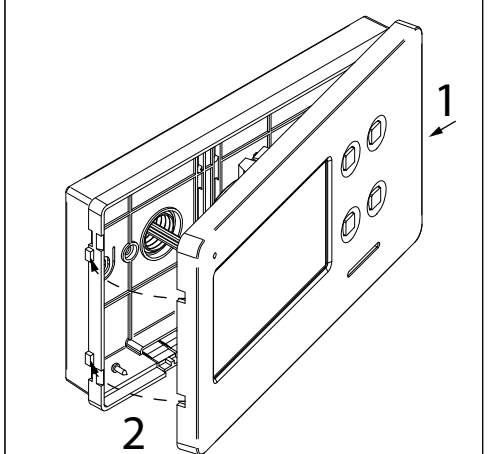


Fig. 6

1. In order to install the videophone, it is necessary to remove the cover, which contains all the electronics, from the base: press lightly on the right part of the videophone and simultaneously pulling outwards the left part as shown in **Fig. 1**.
2. Put the base of the unit on the wall at approx 135cm from the finished floor to match the points for the fixing holes "A" (**Fig. 2**) remembering that the wires "D" (**Fig. 3**) must be fed through the large hole "E" (**Fig. 3**). If you use the flush mounting box 503, embed it into the wall vertically at approx. 140cm from the finished floor and the base.
3. Following **Fig. 3**, make the holes "A", insert the wall plugs "B" and fix the base with the screws "C" feeding the wires "D" through the hole "E". If you have used the box 503, fix the base to the wall through the holes "F" using the screws "C".
4. As shown in **Fig. 4**, connect the wires to the removable terminals following the provided installation diagram. Connect the terminal blocks to the electronics contained in the cover as shown in **Fig. 5**. Test system before closing.
Contrast and hue trimmers can be adjusted only if the videophone is open. To activate the display and see changes use the "Camera Recall" function by pressing  button.
Note: while testing the system, it is advisable to hold the cover with your hand.
5. Once testing is complete and all the necessary adjustments are made, close the unit as shown in **Fig. 6**: first hook in the right part and then the left part until you hear a click.