



Fig. 1

DESCRIPTION

Digital audio/video door entry panel in the Kristallo design for indoor use only and to work with the VIDEX VX2200 digital system.

Normally used on installations where each apartment requires an internal intercom directly outside their apartment.

The panel includes an hd colour camera (650 lines with 90° of viewing angle) plus the illumination LEDs (infrared light), the speaker unit module, one call button , one service button  and 4 numeric buttons (1, 2, 3 and 4) for coded access using an eight digits code.

10 Way dip-switch bank of which 8 (1 to 8) are used to set the address of the videophone to call, the ninth to set the door opening time (2 seconds = OFF, 6 seconds = ON) and the tenth to restore the engineer's code to factory default.

8 digit numeric access code programmable through the 4 numeric buttons.



Loudspeaker and microphone volume adjustable through two trimmers on the bottom of the unit.

Block exchangers are not required.




LEGEND

- Ⓐ Microphone
- Ⓑ Camera IR LEDs
- Ⓒ Colour Camera
- Ⓓ Stairway lighting LED
- Ⓔ Stairway lighting button
- Ⓕ Call LED
- Ⓖ Call button
- Ⓗ Push buttons
- Ⓘ Connection Terminals
- Ⓛ Dip Switch
- Ⓜ Microphone & loudspeaker trimmer

PUSH BUTTONS

	Call button Press to call the videophone with same PHONE ID programmed on the 10 way dip-switch bank.
	Stairs light button Press to enable the relevant "LGT" active low open collector output (Maximum 100mA). Normally used as stair light button (a specific connection is requested to operate).
1 2 3 4	Code buttons Press to enter the door opening code and activate the relevant "REL" active low open collector output (Maximum 100mA). Use the same button also to program the door opening code (a specific connection is requested to operate the door opening code).







LEDS

	Camera IR LEDs Provide the camera illumination during the call and the conversation.
	Stairway lighting LED Normally turned ON during the standby, temporarily flashes quickly when the relevant button is pressed. When the unit is in door open code programming mode, the LED flashes quickly.
	Call LED Normally turned ON during the standby, temporarily flashes slowly (during the call or conversation) when the relevant button is pressed. When the unit it is in door open code programming mode, the LED flashes quickly.

OPERATION

To call the apartment


Press the  button :

- The LED  turns OFF and the LED  starts flashing slowly emitting a low volume beep each time the LED  turns ON.
- When the apartment answers, the LED  flashes faster and the conversation is open.
- When the conversation is closed, both the LEDs   are temporarily turned OFF then turned ON again.

In case of no answer, the call stops automatically after 40 seconds approx while in case of answer if the conversation is not closed by the user the call will terminate automatically after 60 seconds.

To switch ON the stair light

Press the  button :


- The LED  flashes quickly during the time that the "LGT" output is active.



The function requires the connection of a relay that must be enabled by the "LGT" active low output.

To open the door by the door open code

Enter the 8 digits door opening code by the four numeric buttons **1, 2, 3** and **4**.

- The LED  turns off.


The LED  turns off then the unit emits a beep and the LED flashes each time a numeric button is pressed.

If the entered code is correct, the LED  flashes quickly 3 times, the unit emits 3 short beeps and the "REL" output is enabled for the programmed time while if the code is wrong the LED  remains off and 3 long beep are emitted.

The function requires the connection of a relay that must be enabled by the "REL" active low output.

PROGRAMMING & ADJUSTMENTS

Programming options are:

- The Phone ID (address) of the local videophone to call when the  button is pressed (10 ways dip-switch bank, switches from 1 to 8).
- The door opening time for the electric lock (switch 9).
- The door opening code (through the numeric buttons **1, 2, 3** and **4**).

LOCAL VIDEOPHONE PHONE ID SETUP

Use the first 8 dip-switches of the 10 way dip-switch bank to set the PHONE ID for the local videophone. Each switch corresponds to one bit which can have a value 0 (OFF) or 1 (ON). Each bit corresponds to a decimal weight depending on the position: Switch 1 = decimal 1, 2=2, 3=4, 4=8, 5=16, 6=32, 7=64, 8=128. **I.E.** to set the address 37, put switches 1, 3 and 6 on (1+4+32=37).





SWITCHES								DECIMAL WEIGHT								ADDRESS
8	7	6	5	4	3	2	1	128	64	32	16	8	4	2	1	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	0	0	0	0	0	0	0	1	1
OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	0	0	0	0	0	0	1	0	2
OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	0	0	0	0	0	0	1	1	3
OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	0	0	0	0	0	1	0	0	4
OFF	OFF	ON	OFF	OFF	ON	OFF	ON	0	0	1	0	0	1	0	1	37
ON	OFF	ON	ON	OFF	ON	OFF	OFF	1	0	1	1	0	1	0	0	180

DOOR OPENING TIME SETUP

The switch 9 sets the door opening time : OFF= 2 seconds, ON= 6 seconds.

DOOR OPEN CODE SETUP

To setup the door opening code proceed as follows:

1. With the unit in stand-by (LEDs  and ) turned ON, enter the 8 digit engineer's code (factory default "11111111" eight times one).
2. Both the LEDs  and  start flashing, enter a new engineer's code (8 digits) or confirm the old one entering it (8 digits) again.
3. Enter the new door open code (8 digits) using the buttons **1, 2, 3** and **4**.

To restore the engineer's code to the factory default, power off the unit put ON switch 10 and power up the unit again then put OFF switch 10. The engineer's code is restored to "11111111" eight times one.

VOLUME ADJUSTMENT

Volume adjustment trimmers are available for both microphone and speaker and are located at the bottom of the unit. (Fig. 1 reference "M").

ELECTRIC LOCK CONNECTION

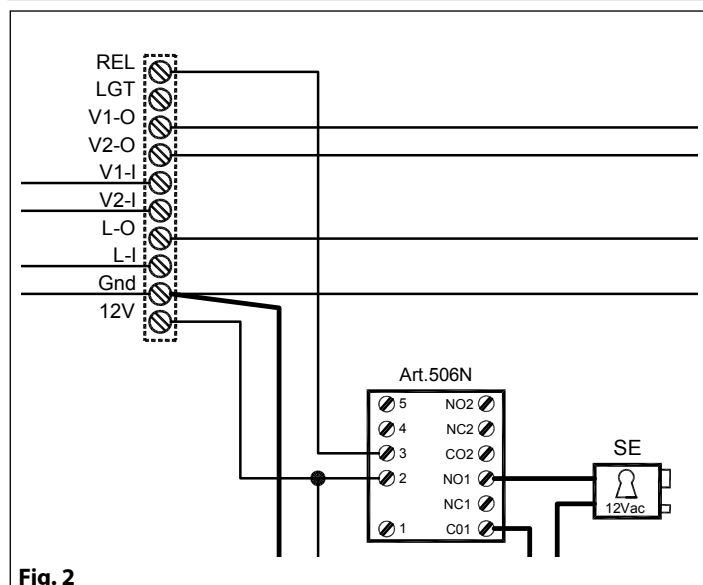


Fig. 2

TERMINALS

REL	Open collector active low output Vdc 100mA max enabled by door opening code (1,2,3 and 4 buttons)
LGT	Open collector active low output Vdc 100mA max enabled by button
V1-O	Video signal V1 output toward the local videophone
V2-O	Video signal V2 output toward the local videophone
V1-I	Video signal V1 input from the main rising column
V2-I	Video signal V2 input from the main rising column
L-O	Data BUS out toward the local videophone
L-I	Data BUS in from the main rising column
Gnd	12Vdc power supply ground and Data BUS minus connection
12V	12Vdc power supply input

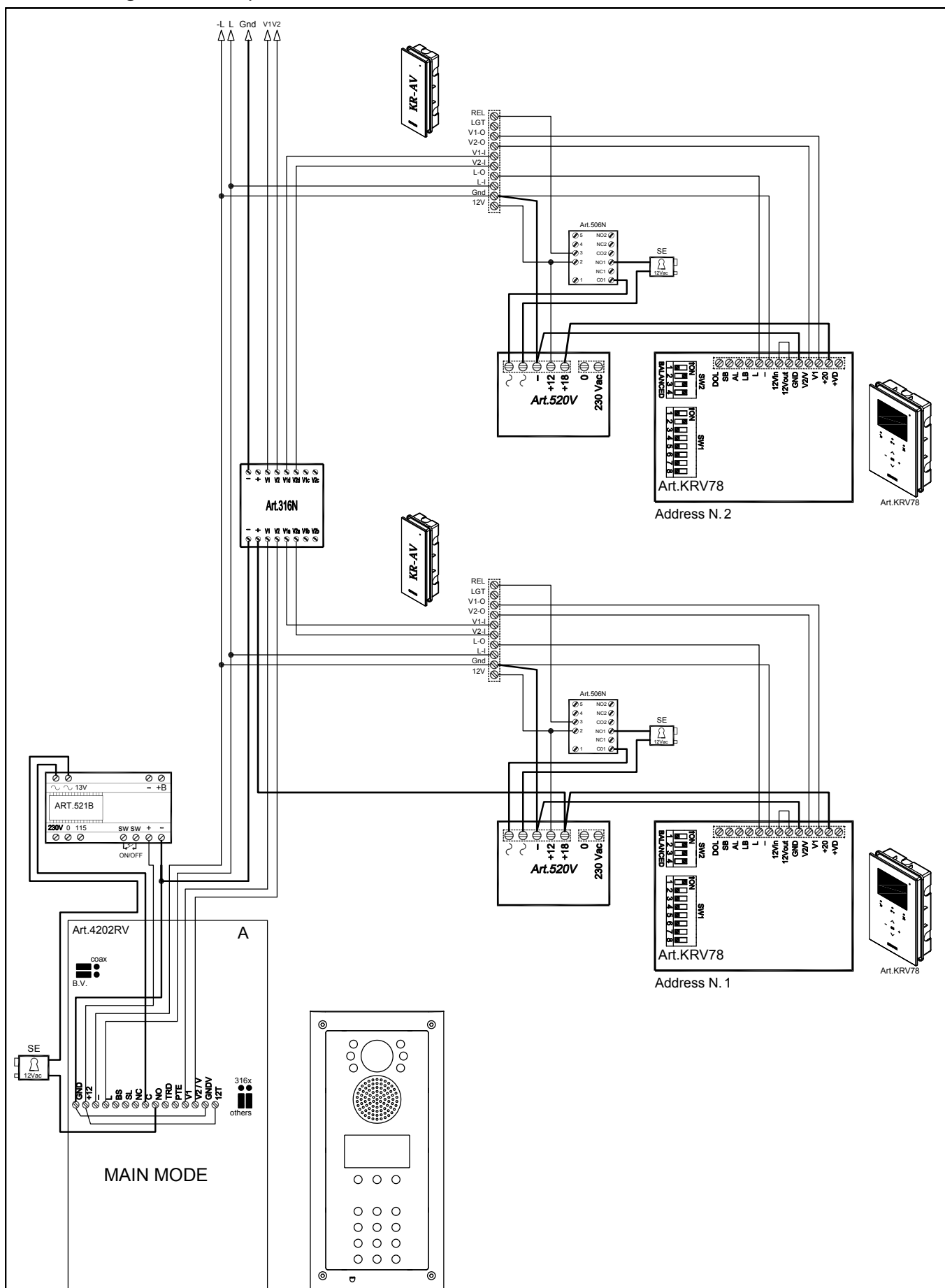
TECHNICAL SPECIFICATION

Power supply voltage: 12÷14Vdc

Power consumption: Stand-by: 6mA max (on 12Vdc)
Operating: 200mA Max (on 12Vdc)

Working temperature: -10° +50° C

Art. KR-AV Digital A/V door panel for VX2200



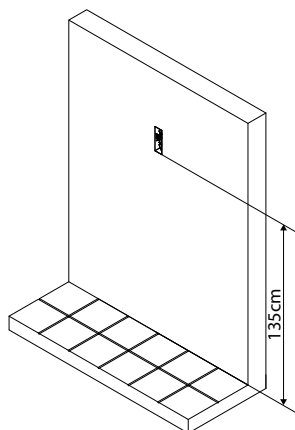


Fig. 1

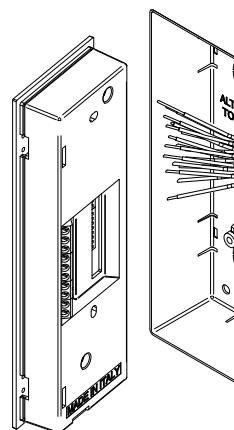


Fig. 2

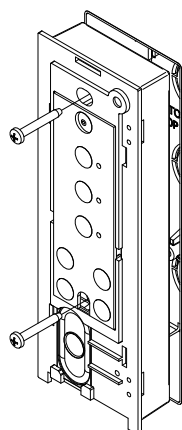


Fig. 3

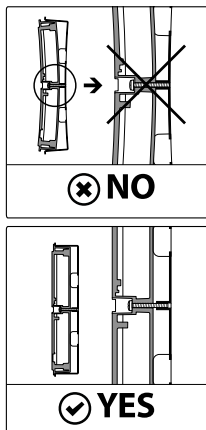
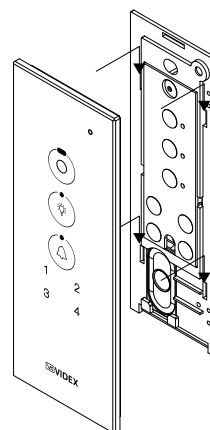


Fig. 4





1. Protect the holes to fix the intercom to the flush mounting box then embed the flush mounting box in line with the wall in vertical position at 135cm height from the floor as shown in **Fig. 1**;
2. As shown in **Fig. 2**, connect the wires using a flat screw driver then setup the dip-switches as per provided connection diagram or instruction sheet.
3. As shown in **Fig. 3**, once the wires are connected, fix the intercom to the flush mounting box using a Phillips screwdriver and the two screws provided.
































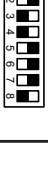























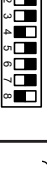







































































⚠ In order to avoid malfunctions, please do not over tighten the fixing screws shown in Fig. 3.

4. Once the intercom is fixed to the flush mounting box, place the front plate against the intercom by inserting the hooks in the corresponding openings and hook the plate by pushing it down as shown in **Fig. 4**.
5. Test the system for correct operation.

Addresses 1..127 Table for dip-switch banks with ON position up

1/2

































































































































 = OFF
 = ON

1		16		32		48		64		80		96		112	
2		17		33		49		65		81		97		113	
3		18		34		50		66		82		98		114	
4		19		35		51		67		83		99		115	
5		20		36		52		68		84		100		116	
6		21		37		53		69		85		101		117	
7		22		38		54		70		86		102		118	
8		23		39		55		71		87		103		119	
9		24		40		56		72		88		104		120	
10		25		41		57		73		89		105		121	
11		26		42		58		74		90		106		122	
12		27		43		59		75		91		107		123	
13		28		44		60		76		92		108		124	
14		29		45		61		77		93		109		125	
15		30		46		62		78		94		110		126	
		31		47		63		79		95		111		127	

Addresses 128..255 Table for dip-switch banks with ON position up

2/2

☐ = OFF
☒ = ON

128 	144 	160 	176 	192 	208 	224 	240 
129 	145 	161 	177 	193 	209 	225 	241 
130 	146 	162 	178 	194 	210 	226 	242 
131 	147 	163 	179 	195 	211 	227 	243 
132 	148 	164 	180 	196 	212 	228 	244 
133 	149 	165 	181 	197 	213 	229 	245 
134 	150 	166 	182 	198 	214 	230 	246 
135 	151 	167 	183 	199 	215 	231 	247 
136 	152 	168 	184 	200 	216 	232 	248 
137 	153 	169 	185 	201 	217 	233 	249 
138 	154 	170 	186 	202 	218 	234 	250 
139 	155 	171 	187 	203 	219 	235 	251 
140 	156 	172 	188 	204 	220 	236 	252 
141 	157 	173 	189 	205 	221 	237 	253 
142 	158 	174 	190 	206 	222 	238 	254 
143 	159 	175 	191 	207 	223 	239 	255 



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