



LASKOMEX®

INSTALLATION OF PANELS

CP-2502xxx
CD-2503xxx
CP-2510xxx
CP-2513xxx
CP-2511xxx
CP-2520xxx
CP-2523xxx
CP-2521xxx
CP-2530xxx
CP-2533xxx



 **LASKOMEX®**
CD-2502
microprocessor control

DIGITAL ENTRY PHONE SYSTEM

1. SAFETY AND USAGE CONDITIONS

- Prior to the installation please read the following instruction.
- Electric installation should be done in accordance with PN-IEC-60364-1 norm by the authorized person. Installation should not be directly exposed to atmospheric electrostatic discharge.
- It is forbidden to connect the panel to other installations, with exception of the application recommended by the producer.
- Self maintenance is only permitted for qualified persons. Device maintenance by unauthorized persons may result in the lost of warranty.
- It is forbidden to connect power supply from sources with different parameters than recommended by the producer to panel clamps. The producer is not responsible for any lost occurred due the usage of improper power supplies.
- Signals from the digital entry phone system should not be directly connected to RTV sets, because of risk of devices and system damages.
- View distortions occurred when raining or just after rain are temporary, they are associated with water gathering near camera lens and should not be perceived as symptom of device damage.
- Outdoor panel should not be sealed (i.e silicon), cause it worsens ventilation and leads to corrosion.
- Dirt on the keyboard (snow, mud) may cause faulty operation - in such case dirt should be immediately removed.
- Do not clean the panel with gasoline, solvents or strong detergents as it may cause damage of the device surface.

2. OUTDOOR PANEL ASSEMBLY

- ☞ **Panel installation can only be carried out when power supply is off !**
- ☞ If possible outer panel should be installed inside wind shields as it is better secured against atmospheric factors.
- ☞ Lens located in the camera panel must not be pointed directly to strong light source (the sun, strongly lightened street lamp), cause it may seriously or completely limit observation of speakers faces.
- ☞ Panel should be installed on the proper altitude providing comfortable usage of the device for all users. Suggested altitude is approx. 150 cm. Install the device lower in order to enable usage for disabled and invalids.
- ☞ When installing panels make certain to provide proper ventilation for each unit. For that reason it is not recommended to seal the space between the frame and the panel with silicon or foam etc.
- ☞ When installing panel with the tenants list make certain to write down names before riveting the device.

Mounting under the plaster.

In the wall cut out an opening of the dimensions that would enable to place the external panel freely in it and the frame should completely cover the opening edges. Then 4 holes $\varnothing$ 10 mm should be drilled for strut pins. The tightening force (important when the cut out opening is deeper than depth of cassette) should be matched to avoid bending of a frame. Make electrical connections and fix panel with a keyboard by two M4 screws and two rivets (included in the set).

Mounting on the plaster.

Drill openings for mounting the panel casing (mounted on the plaster), place the frame (or frames) in the casing mounted under the plaster and screw both elements by strut pins. Connect the wires and fix the panel with keyboard by screws and rivets.

Panel with the tenants list assembly

Description should be done in any graphic program and printed on the paper seize 51x90mm for CP-2502N panel and 65x60mm for CP-2530 panel. When printing mind the 4mm margin on every paper edge.

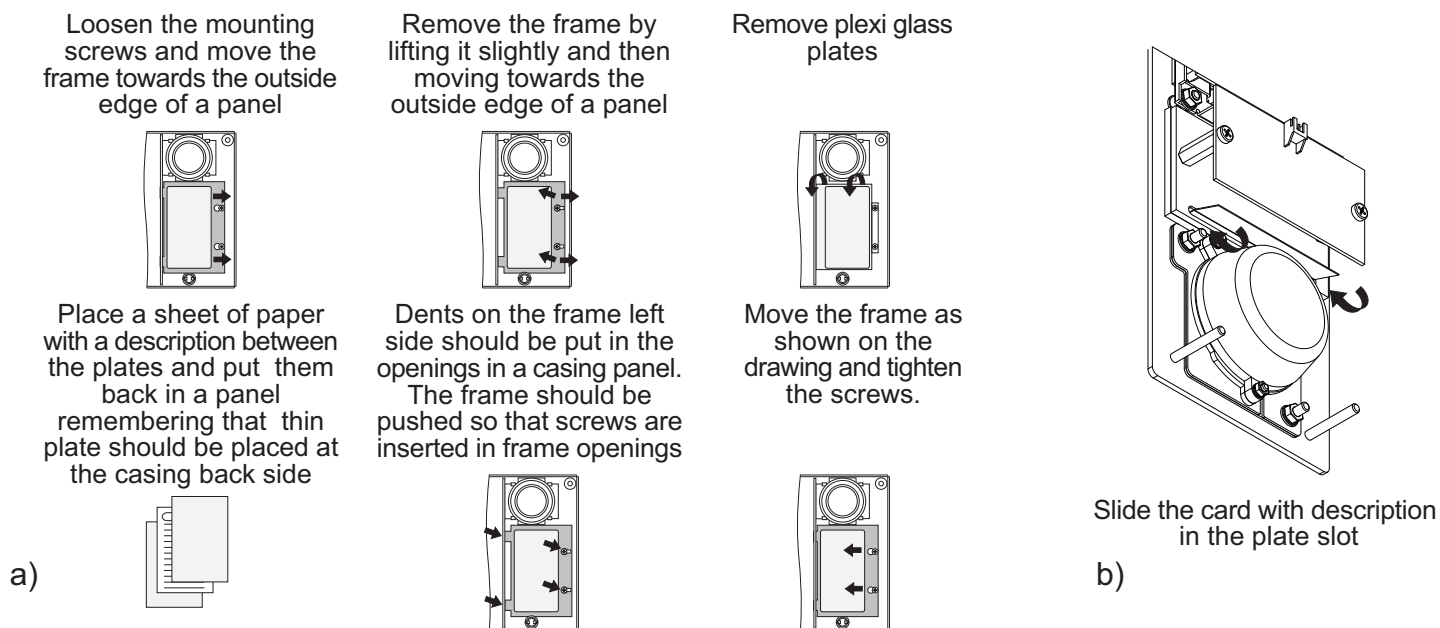


Figure 1: Replacement of a sheet with a list of occupants:

- a) in CP-2502N panel,
- b) in CP-2530, CP-2533 panels

3. DIGITAL ENTRY PHONE SYSTEM CD-2502 ADJUSTMENT

The elements of entry phone system are preliminarily **adjusted** and, unless it is necessary, the position of potentiometers **should not** be changed.

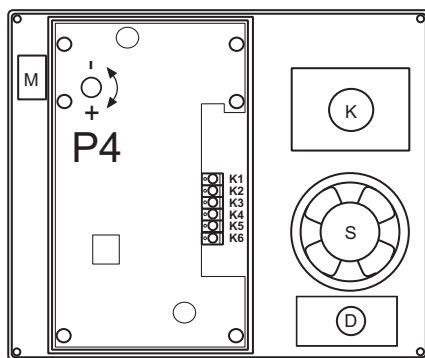


Figure 2: Position of the potentiometer P4 in the external panel - in CP-2502.

Adjustment of gain the microphone track in the panel

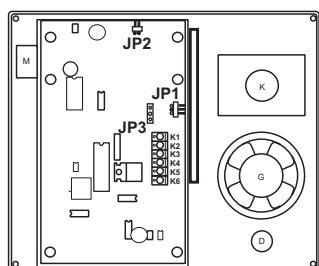
If there is need, the sensitivity of the microphone track can be adjusted with potentiometer P4 in the external panel or with potentiometer P2 (microphone) in the electronic cassette. Only adjustment with potentiometer P2 in the electronic cassette is suggested. If results are not satisfactory then adjustment with potentiometer P4 should be done (position of the potentiometer hand wheel should be maximal).

Volume control in external panel

If there is need loudness of the speaker in the external panel can be adjusted with potentiometer P1 in the electronic cassette adjusting strength of the signal coming from uniphones – see installation and usage manual of system CD-2502.

Jumpers settings.

Set properly jumper JP2 on the electronic panel plate (see figure 3).



- JP1 continuous supplying camera - regardless of the jumper JP3
- JP1 supplying camera while its illumination, according with EUc parameter - provided switching jumpers JP3
- JP2 3 segments display
- JP2 4 segments display
- JP3 camera and additional illumination off
- JP3 camera and additional illumination on

Figure 3: External panel - setting the kind of used display and supplying camera (only in video version) - in CP-2503.

Jumpers settings for video version panel:

Set properly jumper JP1 on the electronic panel plate (see figure 3).

Set properly jumper JP1 on the symmetrizer plate (**NOTE:** not applicable for CP-2530) - see figure 4. Value of the chosen resistance should be adequate to wave impedance of the used cable. Standard setting is 100Ω adequate for UTP cable (**NOTE:** for telephonic cables ie. YTKSY $\varnothing 0,5$ mm set also 100Ω).

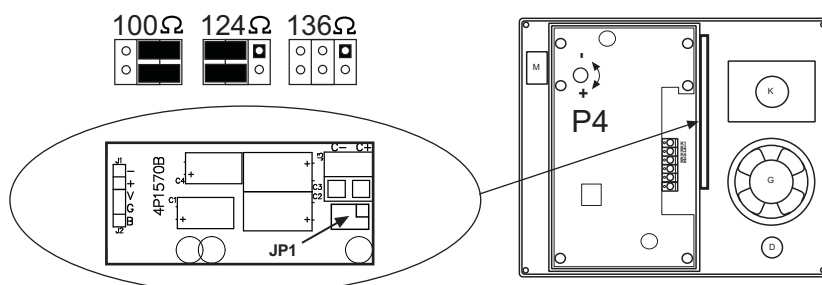


Figure 4: External panel - setting output impedance in a panel in video version - not applicable for CP-2530 and CP-25x3 panels.

Set properly jumper JP3 on the electronic panel plate (see figure 3).

Adjustment of camera position in the external panel in video version - not applicable to CP-2502.

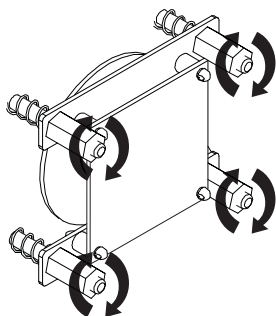


Figure 5: The way of adjustment of camera position in the external panel in video version - not applicable to CP-2502

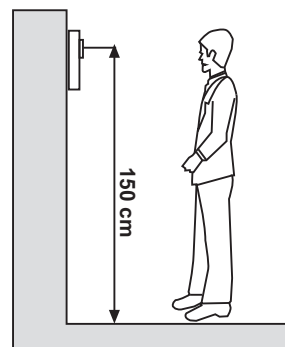


Figure 6: Recommended height of panel mounting.

4. COMPLIANCE WITH PREVIOUS VERSIONS

Outer panels CP-2502xxx, CP-2503xxx, CP-2510xxx, CP-2511xxx, CP-2513xxx, CP-2520xxx, CP-2521xxx, 2523xxx, CP-2530xxx i CP-2533xxx can replace older panels CP-2500xx. Number of digits in the display should be considered and set properly jumper JP2 and JP3 - figure 3.

NOTE!

Correct work of **RFID** function in CP-25xxR panel ensure cooperation **only** with **EC-2502R** electronic cassette.

5. TECHNICAL DATA

El. supply: (terminals K1-K3) **only** from the electronic cassette EC-2502x – 12V/250mA

Ambient temperature: $(-25 \div +55)^{\circ}\text{C}$

Protection degree: IP44

Description of terminals:

- K1** supply of the panel
- K2** digital data from/to panel
- K3** digital mass
- K4** loudspeaker
- K5** analogue mass
- K6** microphone
- C1+** video signal out
- C1-** video signal out
- X+** electronic keys reader-data
- GX-** electronic keys reader-mass

6. CONNECTIONS CHARTS AND ELEMENTS DIMENSIONS

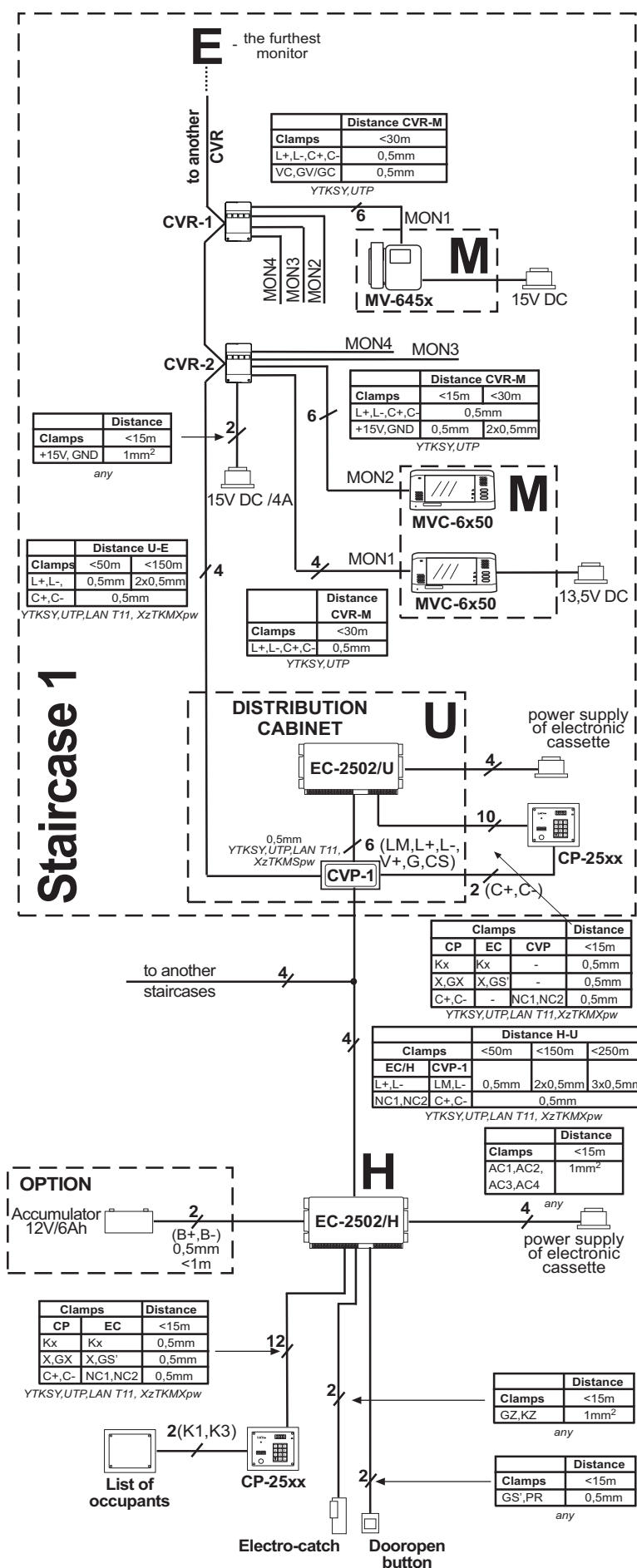


Figure 6: Connections chart and cables selection for entry phone system CD 2502 in video version.

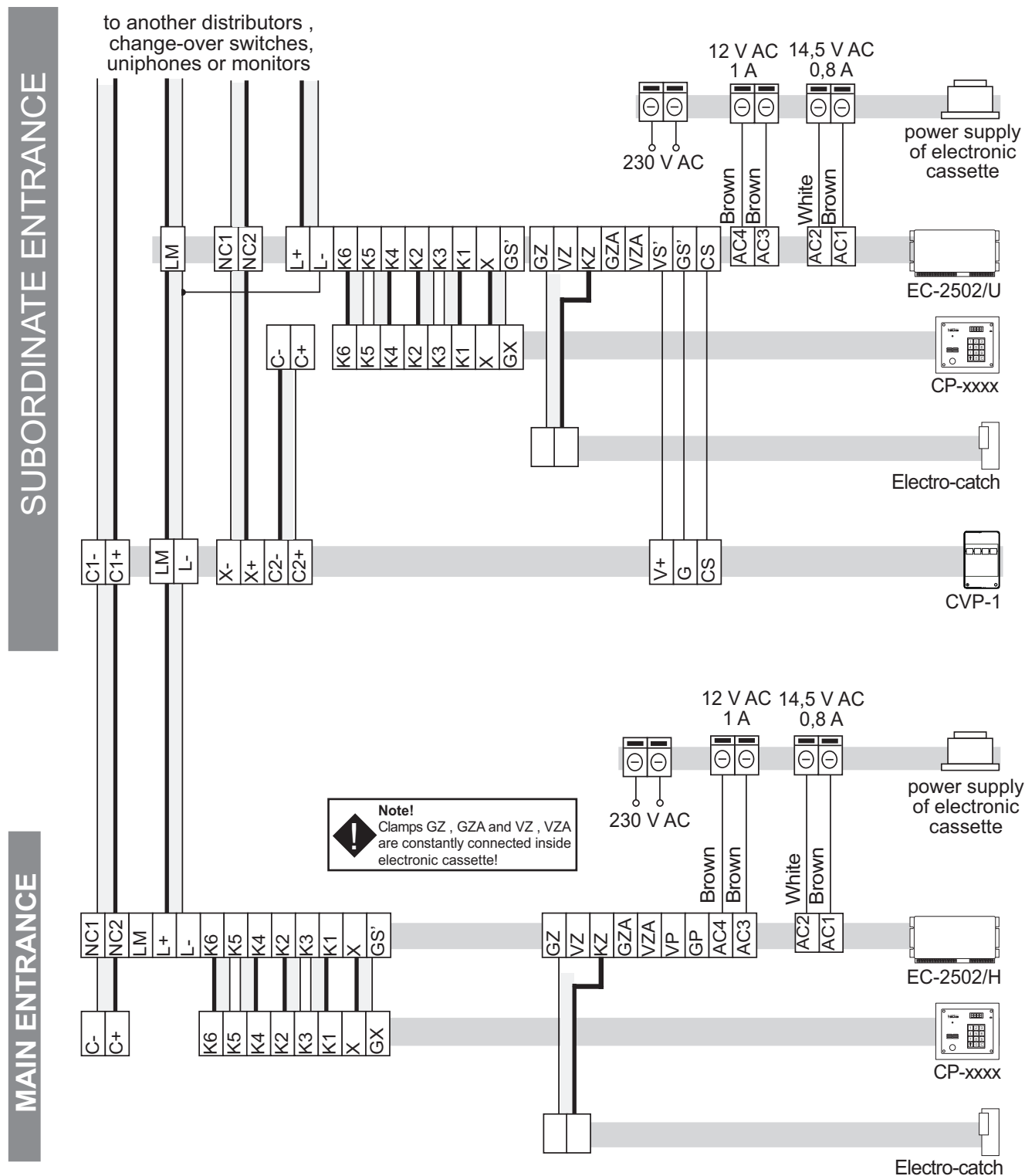
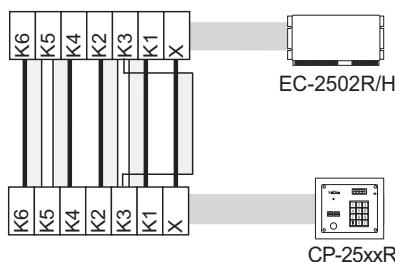


Figure 7: Connecting outer panel to system CD-2502 in video version – multi-entry system

Version with RFID

Note!
The figure show way to connect external panel in RFID version (CP-25xxR).

Correct work of RFID function in CP-25xxR panel ensure cooperation only with EC-2502R electronic cassette.



Full installation, usage and programming manual is available on www.laskomex.com.pl

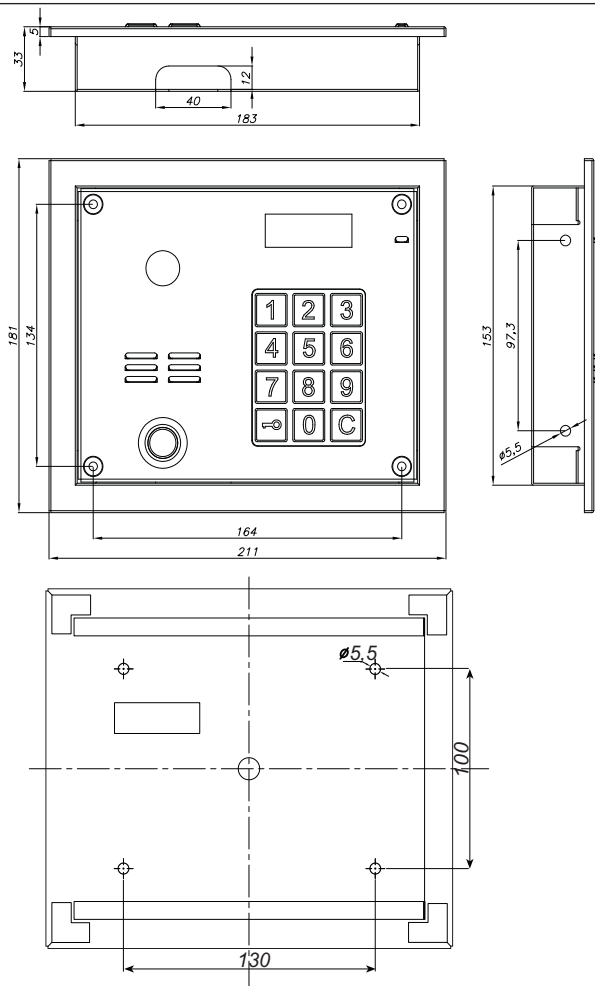


Figure 8: Dimensions of panels CP-2502xx and CP-2503xx with the frame for sub-plaster assembly

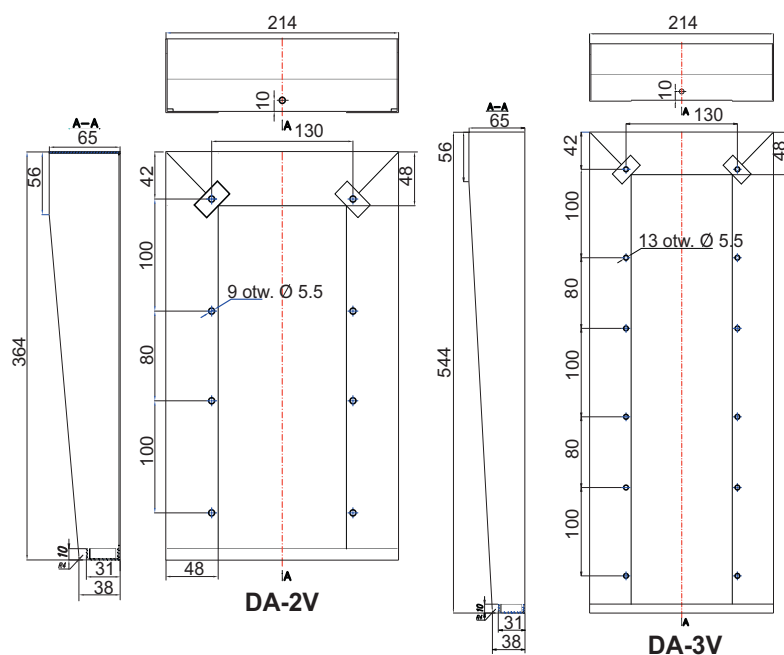


Figure 9: Dimensions of over-plaster casing in vertical position for CP-2502xx and CP-2503xx panels

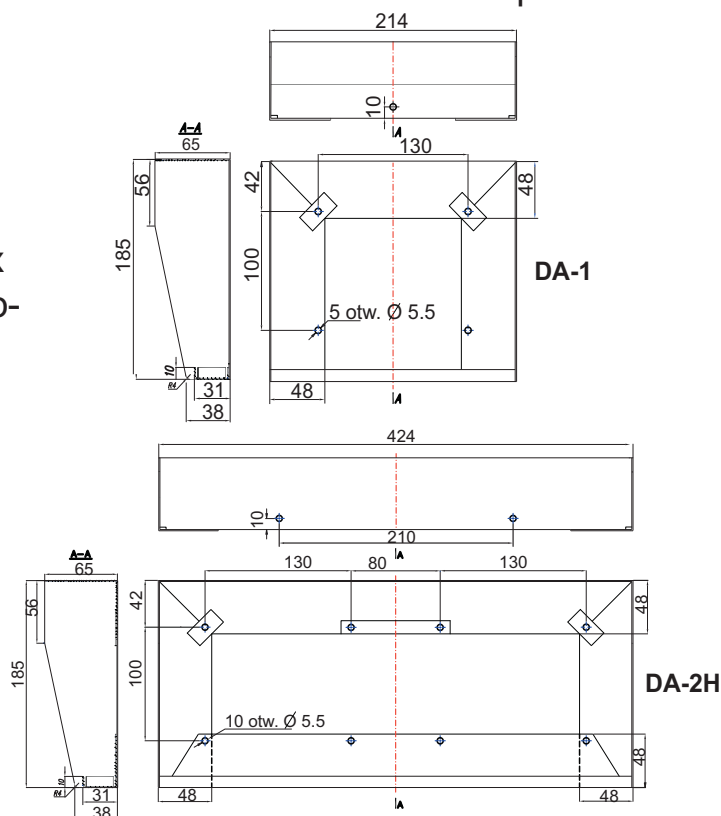
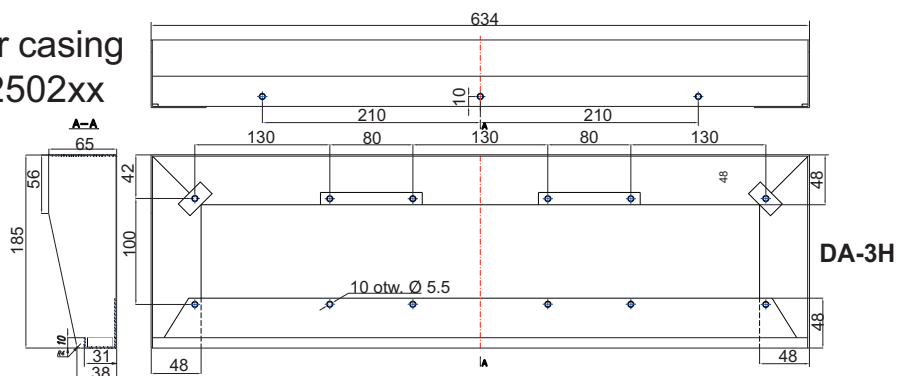


Figure 10: Dimensions of over-plaster casing in horizontal position for CP-2502xx and CP-2503xx panels



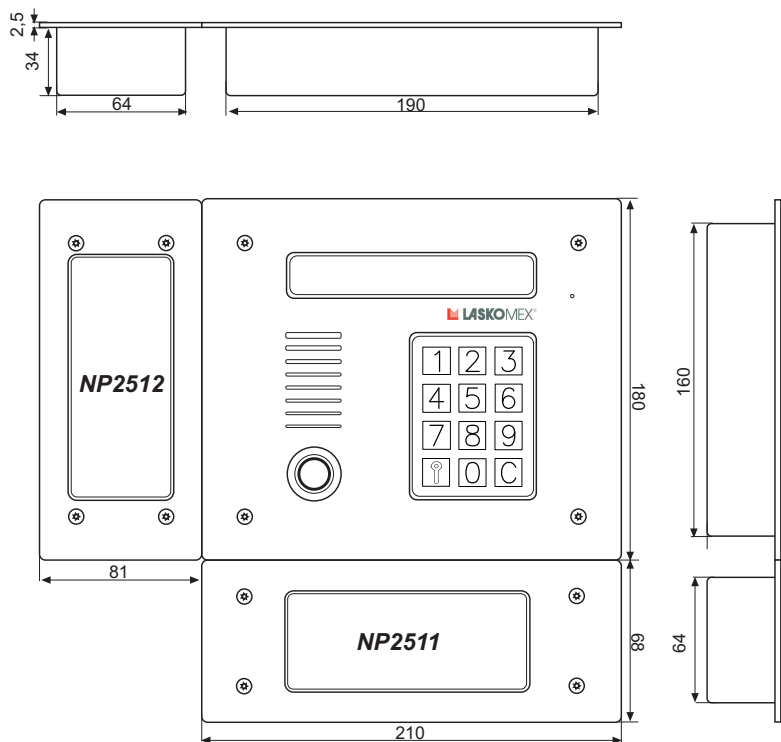


Figure 11: Dimensions of panels CP-2510 and CP-2513, NP2512 and NP2511

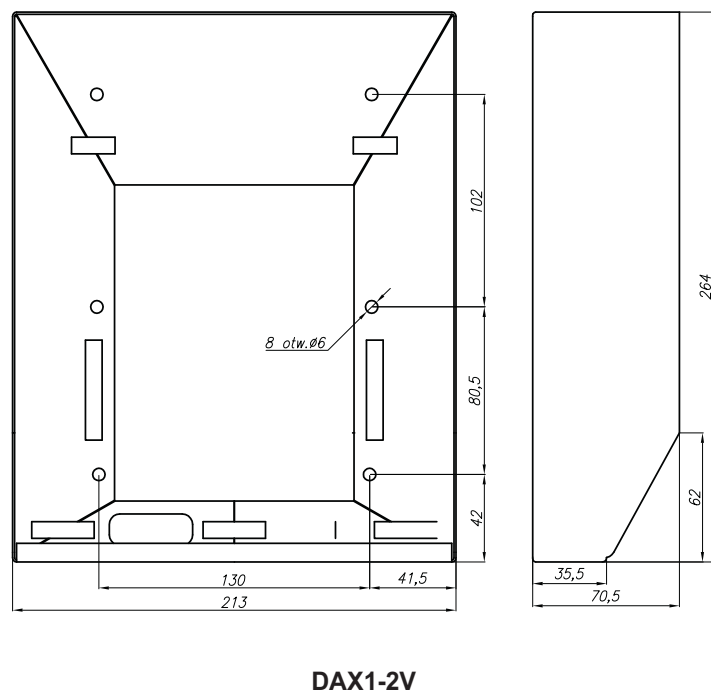


Figure 12: Dimensions of over-plaster casing in vertical position for CP-2510 and CP-2513 panels

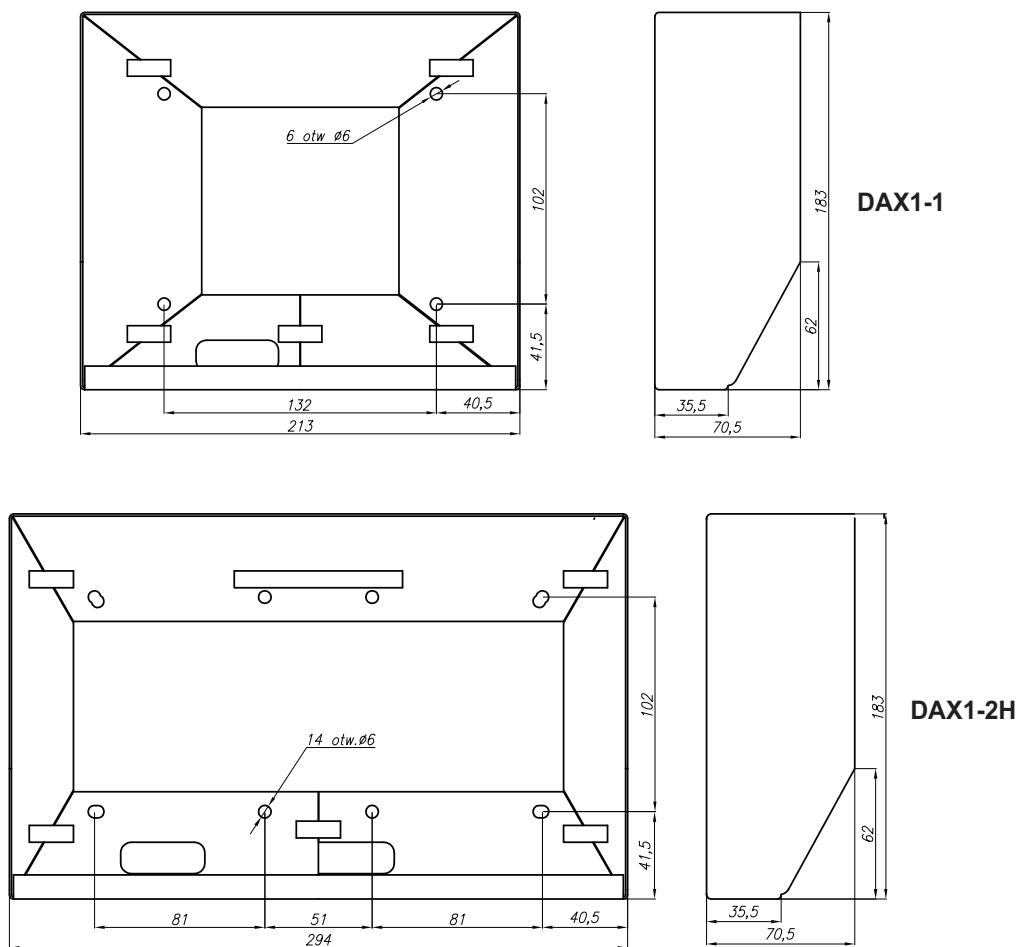


Figure 13: Dimensions of over-plaster casing in horizontal position for CP-2510 and CP-2513 panels

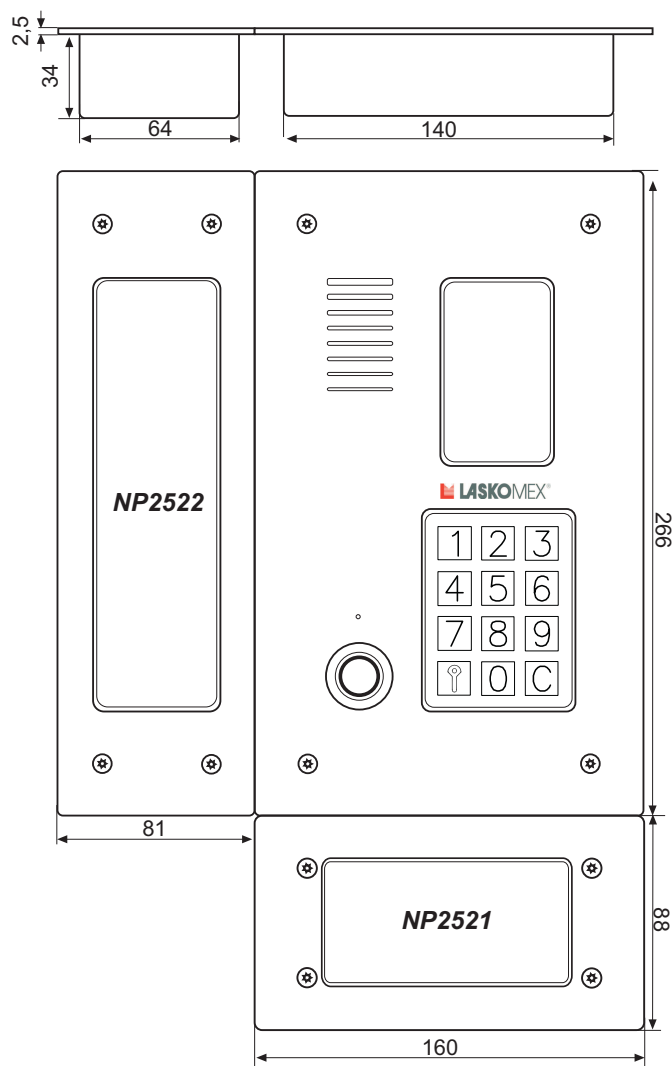


Figure 14: Dimensions of panels CP-2520, CP-2523, NP2522 and NP2521

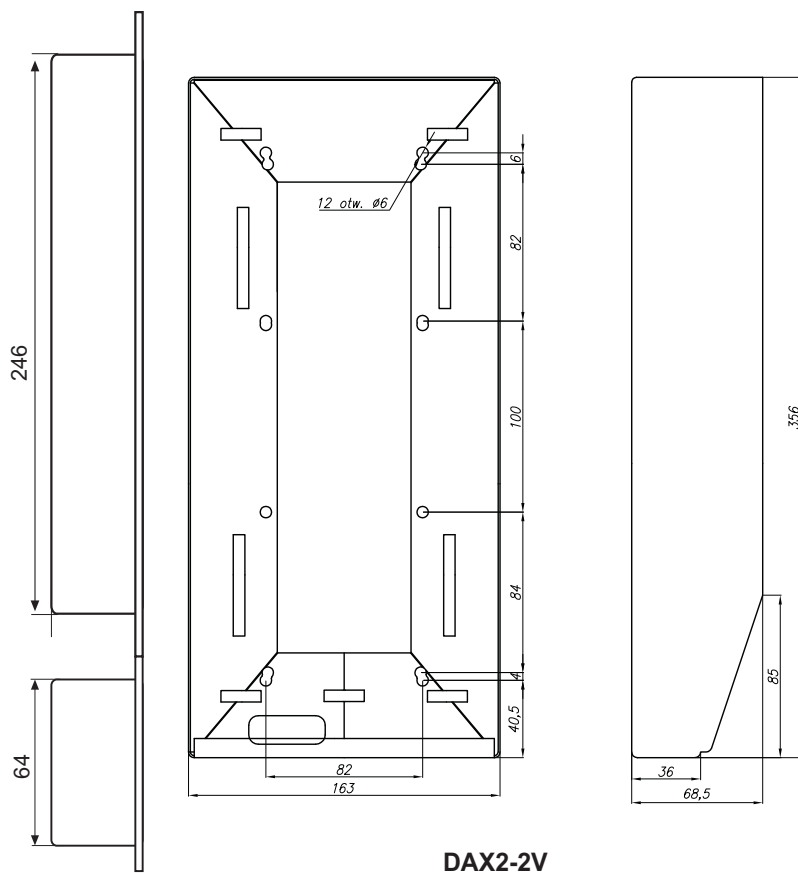
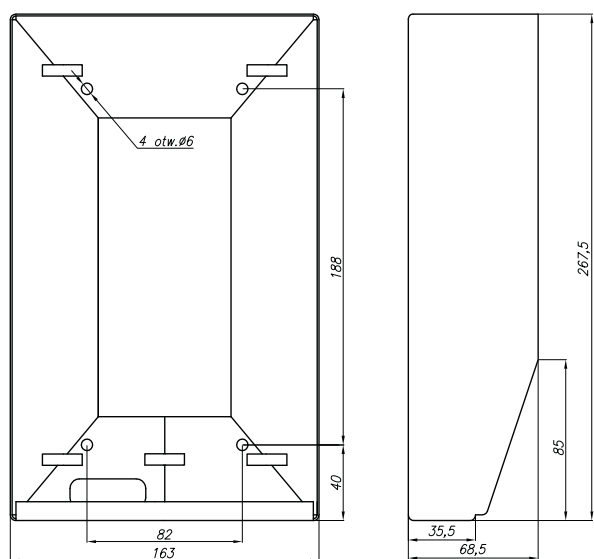
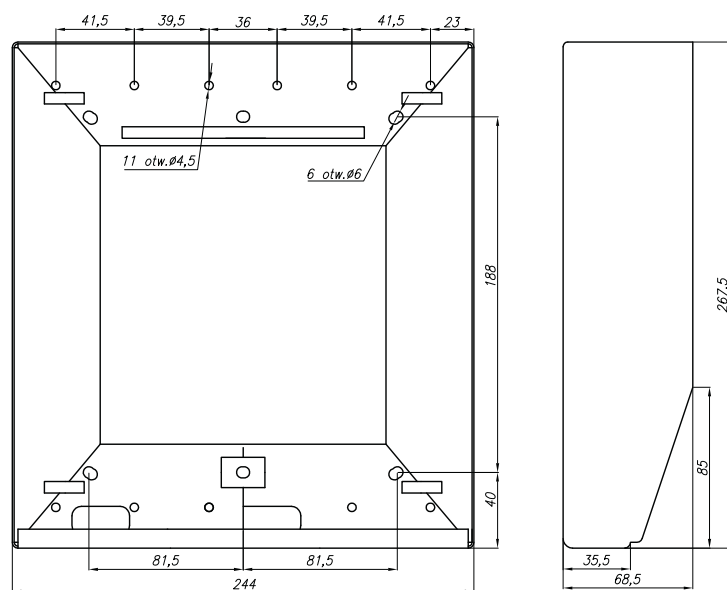


Figure 15: Dimensions of over-plaster casing in vertical position for CP-2520 and CP-2523 panels



DAX2-1



DAX2-2H

Figure 16: Dimensions of over-plaster casing in horizontal position for CP-2520 and CP-2523 panels

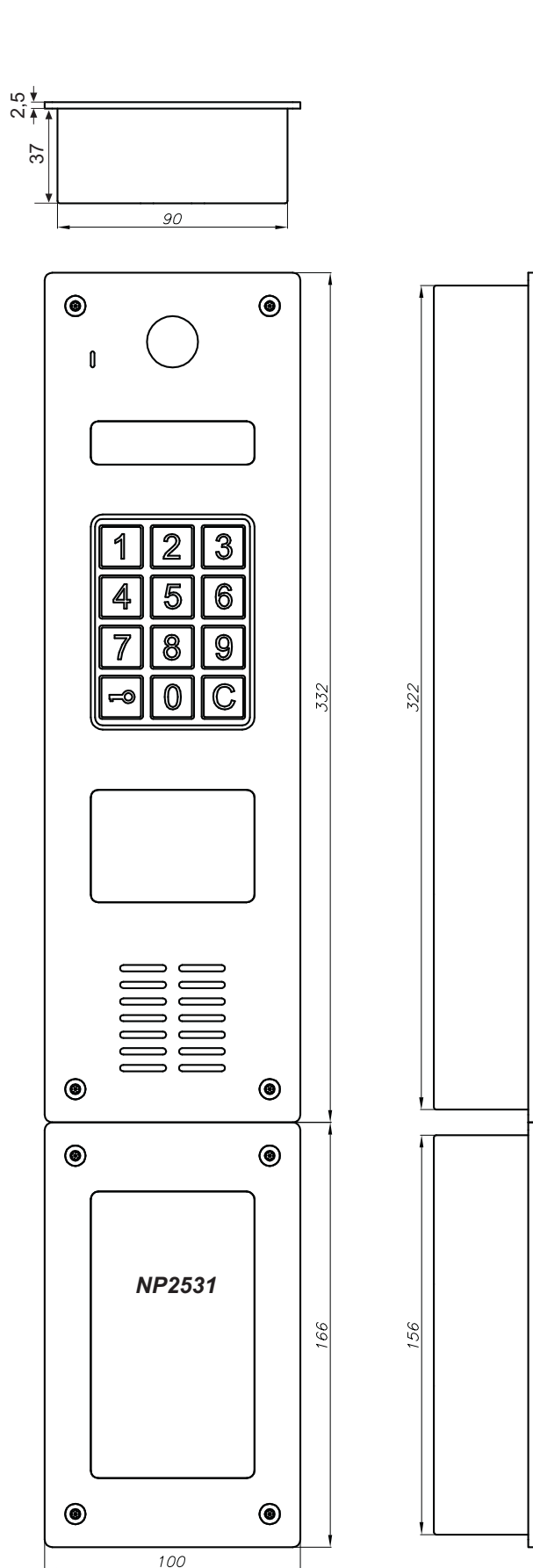


Figure 17: Dimensions of panels
CP-2530, CP-2533

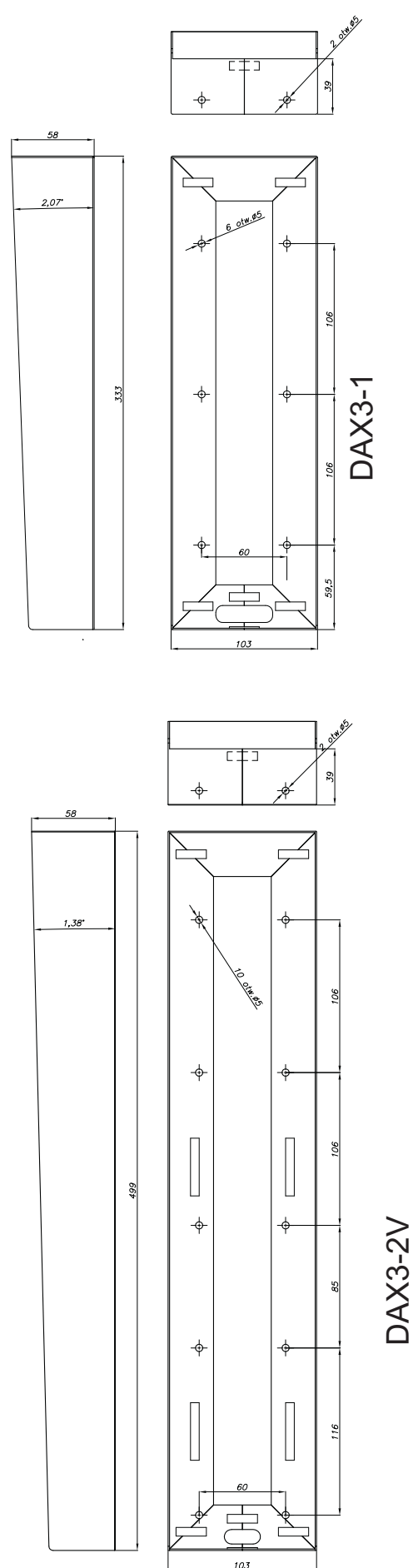


Figure 18: Dimensions of over-plaster casing in vertical position for CP-2530 and CP-2533 panels

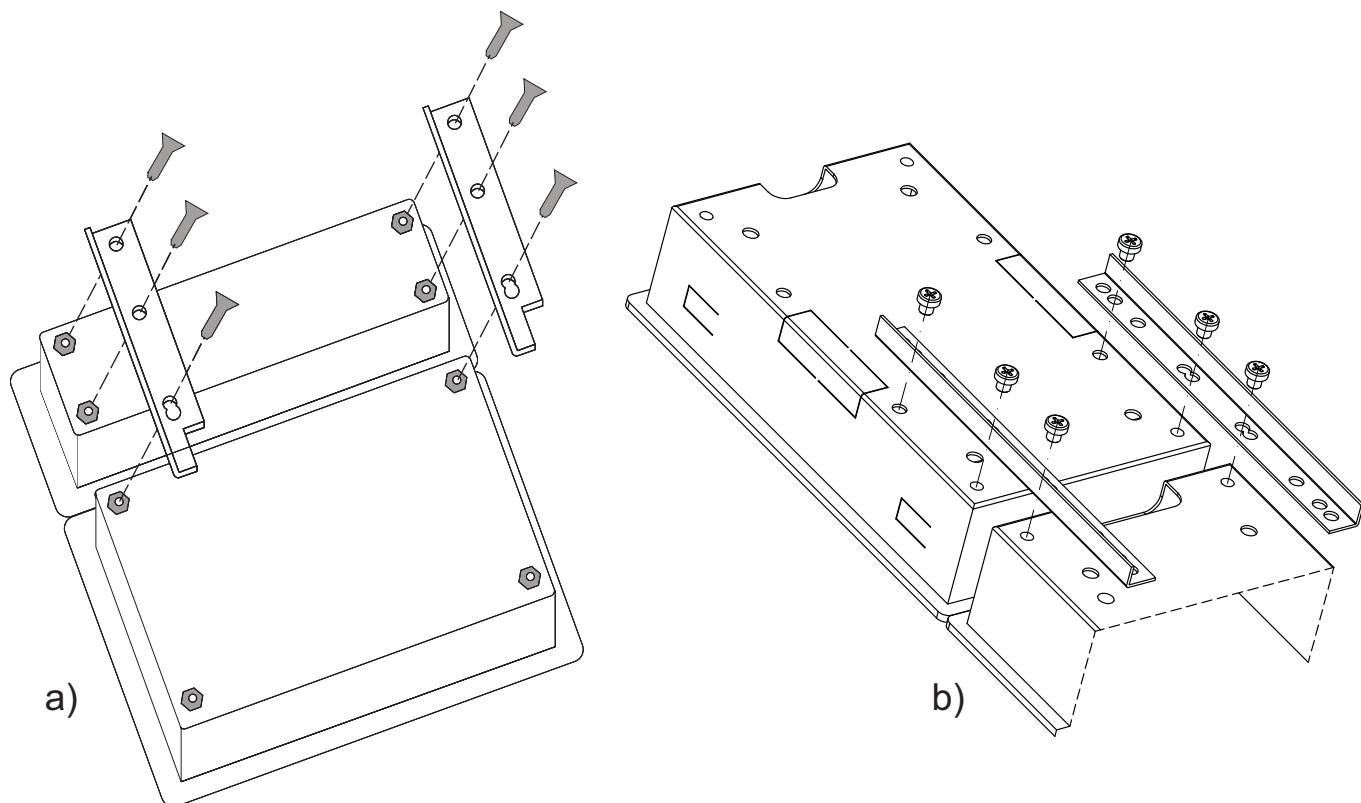


Figure 19: Manner of connecting panel with tenants list
with the aid of established elements
a) CP-251x and CP-252x panels, b) CP-253x panels

INSTRUCTION ON ENVIRONMENT PROTECTION

This product was marked with a symbol of crossed dustbin according to European Directive 2002/96/WE on used electric and electronic equipment. Used equipment cannot be placed with other wastes from households. Product user is obliged to give it to the firm which collects used electronic or electric equipment such as local collection points, shops, places appointed by the producer or commune waste collection units.



List of collecting units of used Laskomex equipment is available on www.laskomex.com.pl website or telephone No. **+48 42 671 88 68**.

Product packing should be removed according to environment protection regulations.

Remember!

Selective collection and recycling of used electronic and electric equipment considerably contributes to the protection of human health and life as well as protection of natural environment.

Return of packaging materials for the material recycling saves raw materials and reduces generating of wastes.