



## Multipurpose Housings

# OPU-4 P OPU-4 PW

opu4p\_en 04/09

The OPU-4 series multipurpose housings are dedicated for SATEL manufactured devices (which are listed in detail in Table 1). They are made of white polystyrene and can be installed indoors. The OPU-4 P housing is designed for surface mounting, and the OPU-4 PW housing – for flush mounting. The housing can accommodate a dedicated transformer (two transformer types are available: 230 V/18 V AC with 40 VA capacity and 230 V/20 V AC with 60 VA capacity) and a battery 12 V / 7 Ah. The housing is provided with a GSM antenna holder and two tamper contacts reacting to an attempt to open the cover and tear off the housing from the mounting surface.

Apart from the tamper contacts, the housing set includes expansion plugs, spacers, two connecting cables for transformer, and extra screws.

PCB group No.	Mark	Devices mounted in openings or holders	Transform. required
02	▼	CA-10 P, CA-64 PTSA, STAM-1 PTSA, INTEGRA 32, INTEGRA 128-WRL	✓
03	▶	CA-6 P, CA-64 OPS, CA-64 PP, INTEGRA 24, APS-30 BO	✓
04	◀	CA-5, ACX-201, ACCO-KP-PS	✓
07		CA-10 E, MST-1, ZB-2	
08		CA-64 E, CA-64 SM, GPRS-T1, GPRS-T2	
09	◀	CA-64 EPS, CA-64 ADR	✓
10	◀	CA-64 O, CA-64 SR, CA-64 DR, VMG-16, ETHM-1, MP-1	
11	▲	GSM-4S	
12		GSM LT-1S, GSM LT-2S, ACCO-KP, ACU-100, ACX-200	
14	▶	VERSA 5, ETHM-2	✓
15	▶	VERSA 10	✓
16	◀	VERSA 15	✓

Table 1. List of devices that can be mounted in the OPU-4 P and OPU-4 PW housings (see also Fig. 1).

## 1. Mounting of the housing

1. Insert the plastic plugs for PCB fastening into appropriate holes in the housing base (the marks make it easier to select the suitable holes – see Figure 1 and Table 1).
2. Run the cables through the holes in housing base.

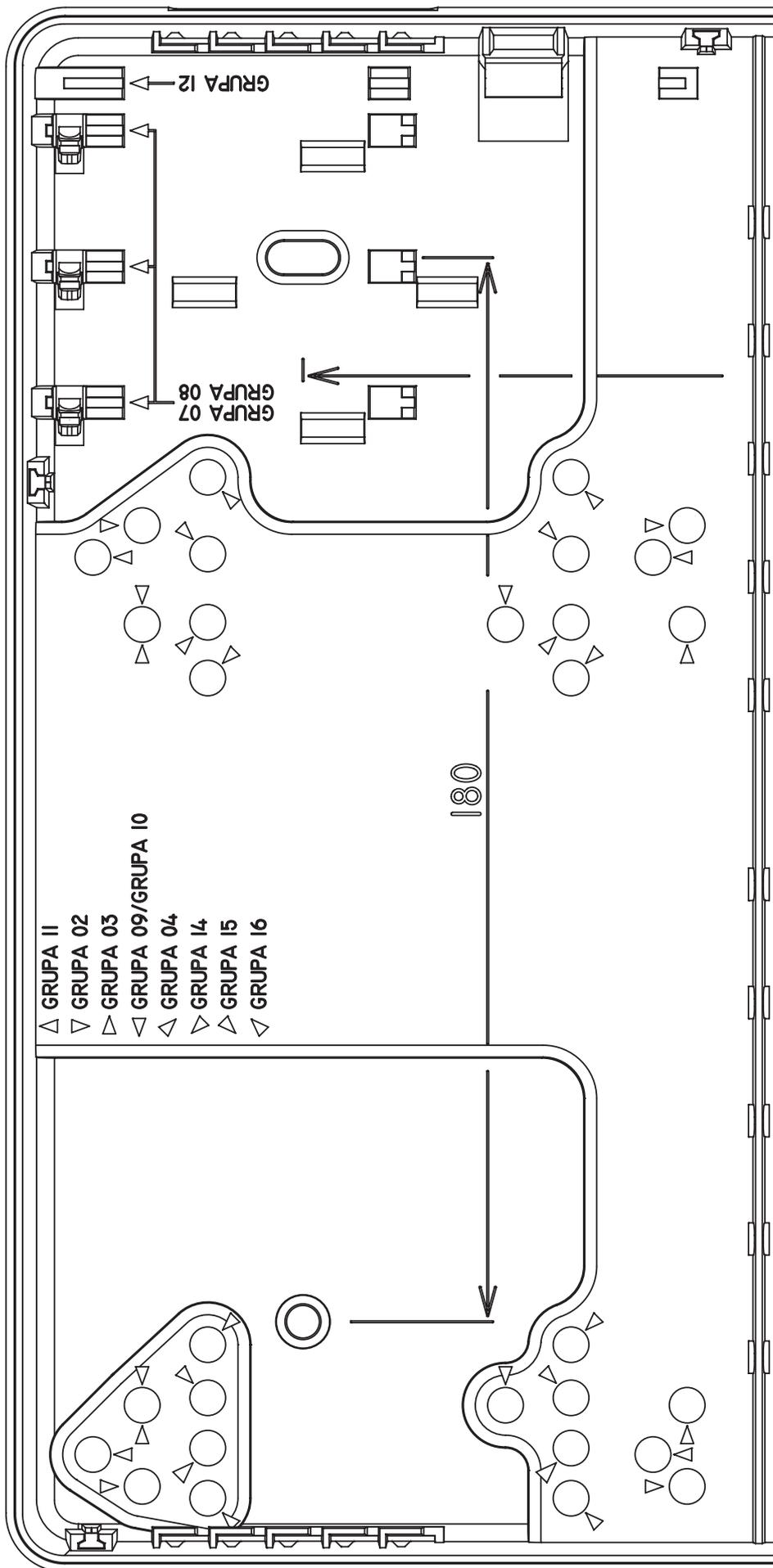


Figure 1. Partial view of the housing with the module mounting place (GRUPA=GROUP).

3. Using four screws, secure the housing base to the mounting surface (if there are problems with laying the cables, use spacers to mount the housing at a distance of 6 mm from the surface).
4. Using a screw, secure the tamper element (which is to be broken off at an attempt to tear off the housing from the mounting surface) to the mounting surface (next to the transformer place).
5. If a device with power supply unit is to be installed, screw down the transformer to the housing base. Connect the 230 V AC power cables to the corresponding transformer terminals.



**Never connect two devices with power supply to one transformer.**

**Prior to connecting the transformer to the circuit from which it will be supplied, de-energize the circuit.**

**Transformer capacity must be matched to the DC power supply output capacity.**

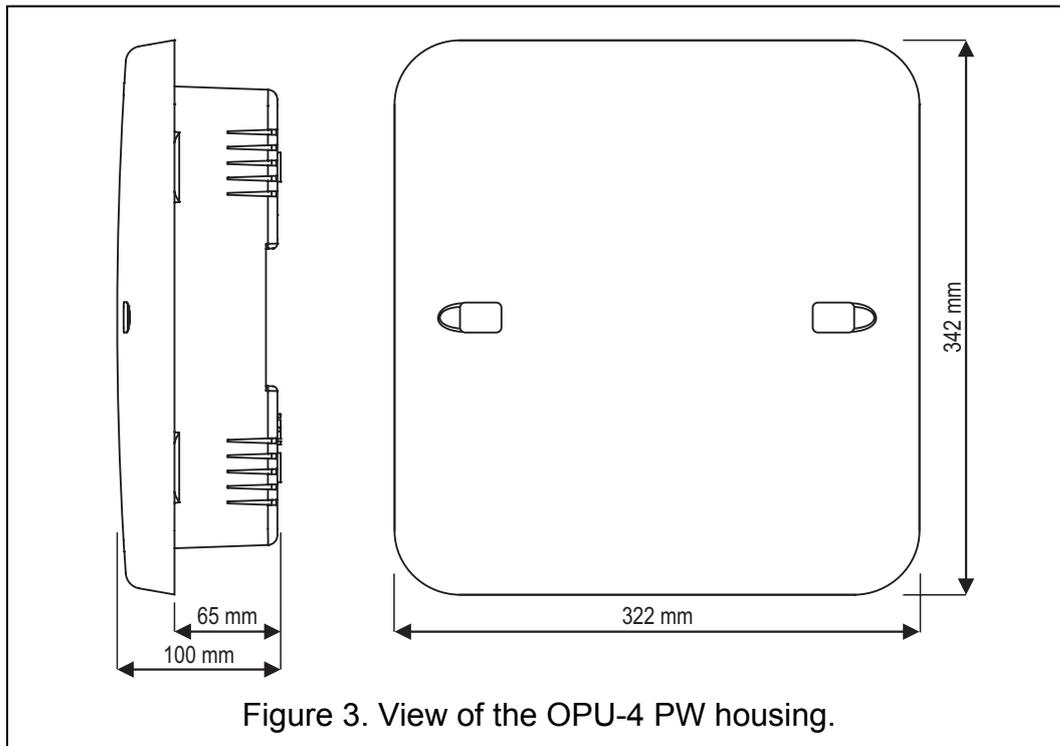
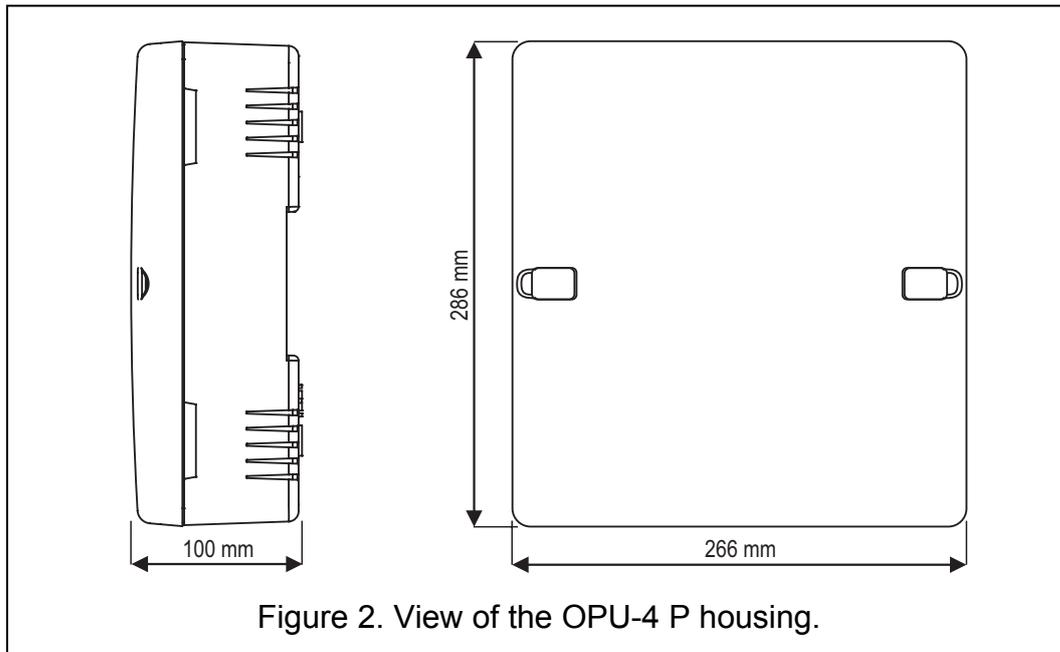
**When mounting several devices in one housing, draw up a load balance so as not to cause overloading of the power supply used. The sum of average currents consumed by the modules and the battery charging current must not exceed the power supply output current.**

6. Mount the battery inside the housing, if the battery is required by the device.
7. Solder the leads to the tamper contacts. The contact on laminate board is to be screwed from above to the post inside the housing so as to be closed after the cover is replaced in position. The other contact is to be snapped in the housing base holder so that the metal plate is pressed against the tamper element attached to the mounting surface.
8. Mount the device PCB on plastic plugs and connect the leads to suitable terminals.
9. When installing a device with power supply, connect the terminals of transformer secondary winding to the power terminals on the device PCB.
10. If required by the device, connect the battery to the dedicated leads (the red one to the battery plus, and the black one to the battery minus).
11. If the APS-30 power supply is to be mounted in the housing, secure the PCB with LED indicators to the post inside the housing, using two screws. Drill in the cover three holes which will accommodate the LEDs when the cover is closed.
12. When installing additional devices in the holders, connect the wires to the terminals of those devices, and only then secure the devices in their holders.
13. Replace the cover and secure it with two screws to the housing base. Stop the screw holes with special hole plugs included in the delivery set.

## 2. Technical data

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Dimensions OPU-4 P.....	266x286x100 mm
Dimensions OPU-4 PW .....	322x342x100 mm
Dimensions OPU-4 PW, sunk in wall portion.....	266x286x65 mm
Weight OPU-4 P .....	920 g
Weight OPU-4 PW .....	1120 g



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