

OMI-5

METAL ENCLOSURE

omi-5_en 07/19

The OMI-5 enclosure allows mounting of the INT-E, INT-O and INT-PP expanders. The enclosure can accommodate a power supply (APS-612 / APS-412) or transformer, as well as a 12 V/17 Ah battery. It is designed for indoor surface-mounting.

Using in the enclosure accessory mounting elements, such as the DIN rail (OMI-5 DIN) or plastic mounting inserts (OMI-5 PI), makes it possible to install in the enclosure some other devices offered by SATEL (the accessory mounting elements are not sold together with the enclosure set).

The OMI-5 enclosure meets the requirements of EN 50131 standard for GRADE 3.

1. Features

- High mechanical strength.
- Option to mount devices on DIN rails (35 mm) or plastic mounting inserts.
- Tamper protection against opening and removal of the enclosure from mounting surface.

2. Description

There are mounting holes for plastic pins arranged in the enclosure base that allow mounting of electronics boards. You can use these holes to install inside the enclosure 12 INT-E expanders or 6 INT-O / INT-PP expanders (see Fig. 1). You can also find screw holes for mounting DIN rails and two plastic mounting inserts in the base (for mounting examples – see Fig. 2). Use Table 1 and Fig. 1 to plan the arrangement of individual devices and mounting elements in the enclosure (for a detailed list of the devices and their layout on the mounting inserts, please refer to Table 2 and Fig. 4). In the bottom part of the enclosure, a shelf for the battery is provided.

Hole designation	Modules / mounting elements fastened in the holes
1	INT-E
2	INT-O, INT-PP
3	DIN rail
4	inner mounting insert
5	fasteners for outer mounting insert
6	transformer

Table 1. List of the devices and mounting elements (DIN rail and mounting inserts) that can be fastened to the OMI-5 enclosure base as shown in Fig. 1.

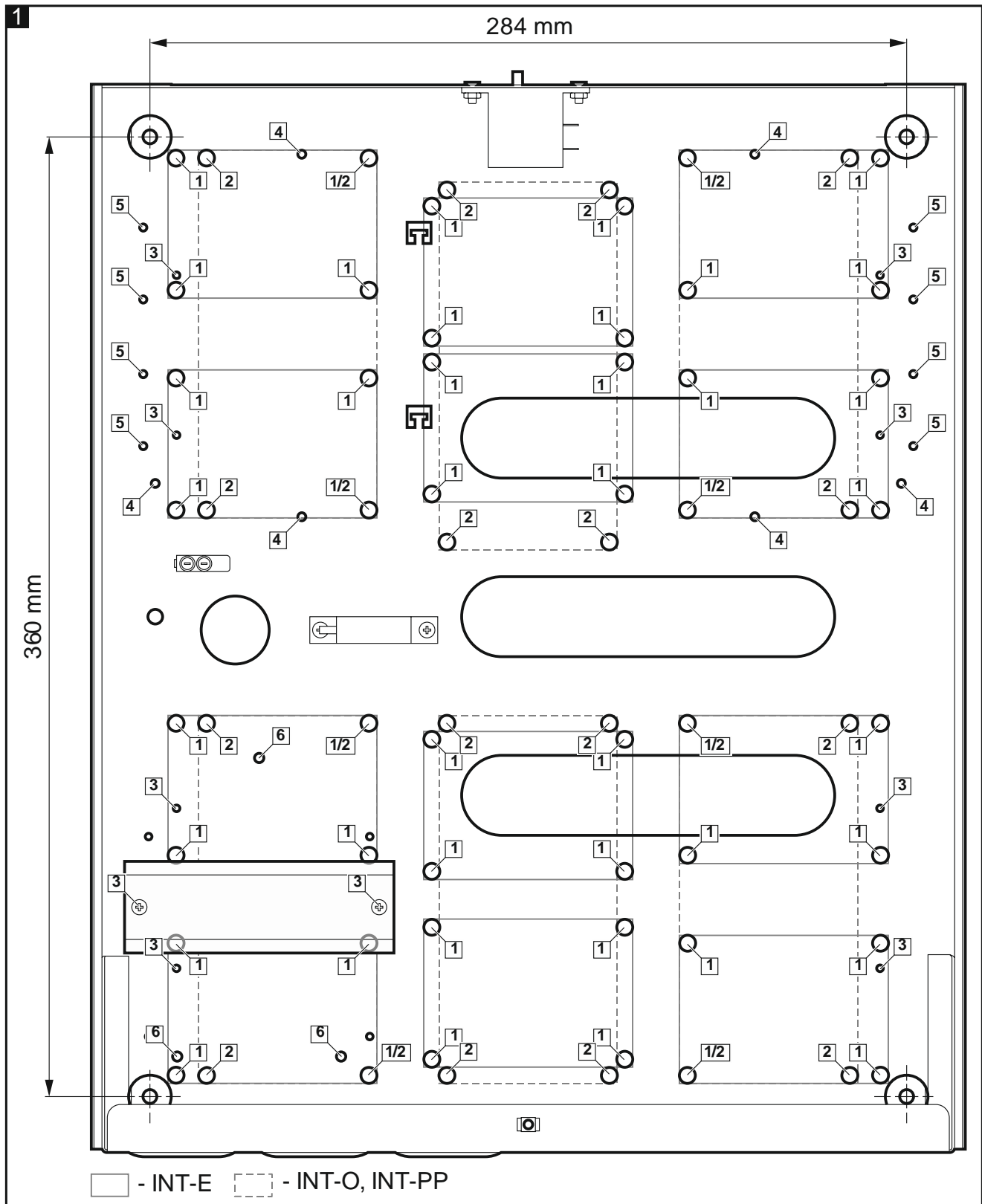
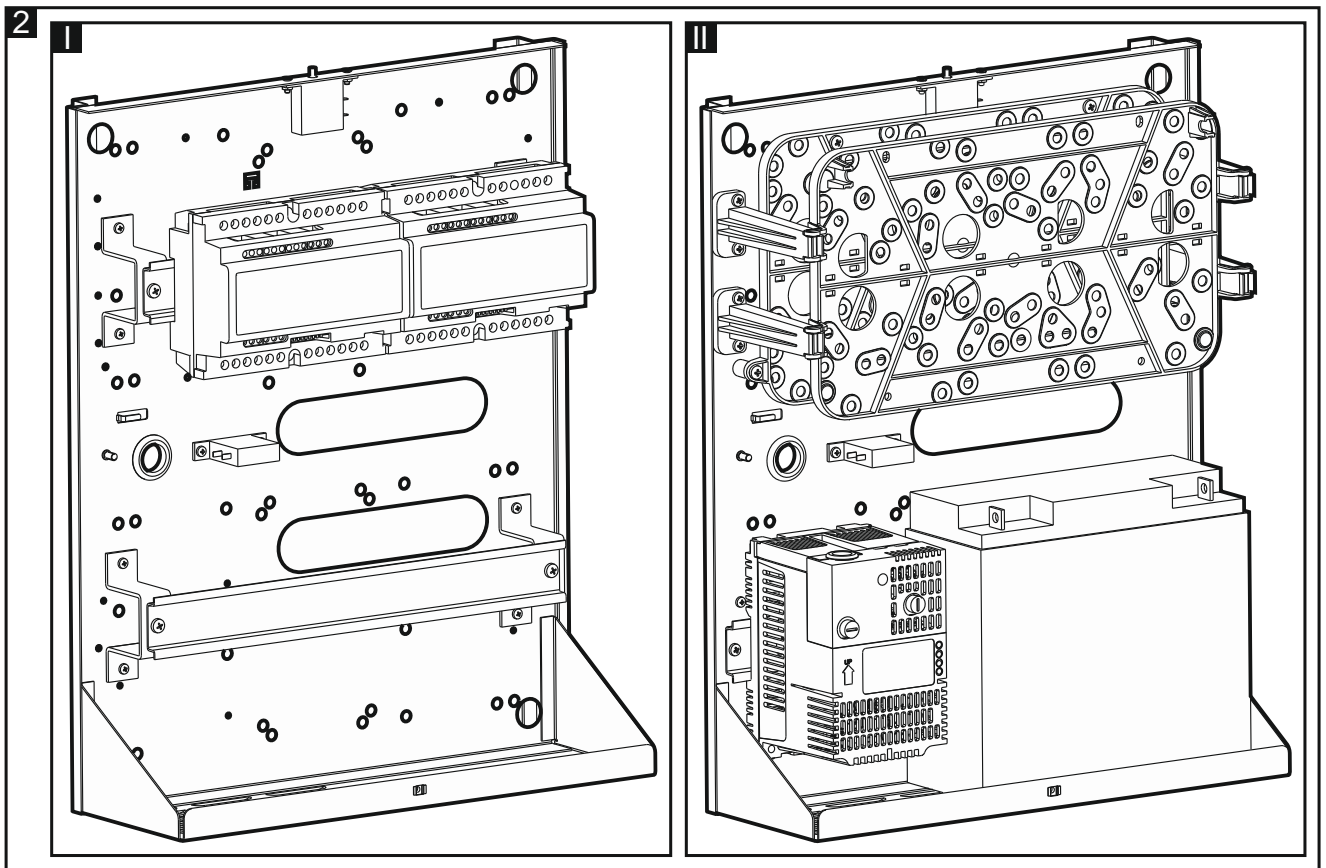


Fig. 2-I shows an example in which two DIN rails have been fastened with screws to the enclosure base. You can use the rails to mount the SATEL INT-ORS, INT-IORS expanders inside the enclosure. Fig. 2-II shows how additional mounting inserts, power supply on DIN rail and battery can be arranged in the enclosure. After removal of the DIN rail (which is factory mounted), you can use screws to mount the transformer instead.



3. Installation of the enclosure

1. Plan the arrangement of devices in the enclosure (see Table 1 and Figures 1 and 2).
2. Put the plastic pins for fastening PCBs in their respective holes.
3. When using additional mounting elements (DIN rail, mounting inserts), fasten them with screws to the base. Before fastening the mounting inserts with screws, plan the arrangement of devices on the inserts and arrange the pins for fastening PCBs accordingly (see Table 2 and Fig. 4).
4. Run cables through the holes in the enclosure base.
5. Secure the enclosure base with 4 screws to the mounting surface.
6. When installing a device with power supply, remove the DIN rail mounted by the manufacturer in the enclosure and, using screws, fasten the transformer to the base. Connect the 230 V AC wires to the corresponding terminals on the transformer.



Never connect two devices with power supply to one transformer.

Before connecting transformer to a circuit from which it will be powered, make sure the circuit is de-energized.

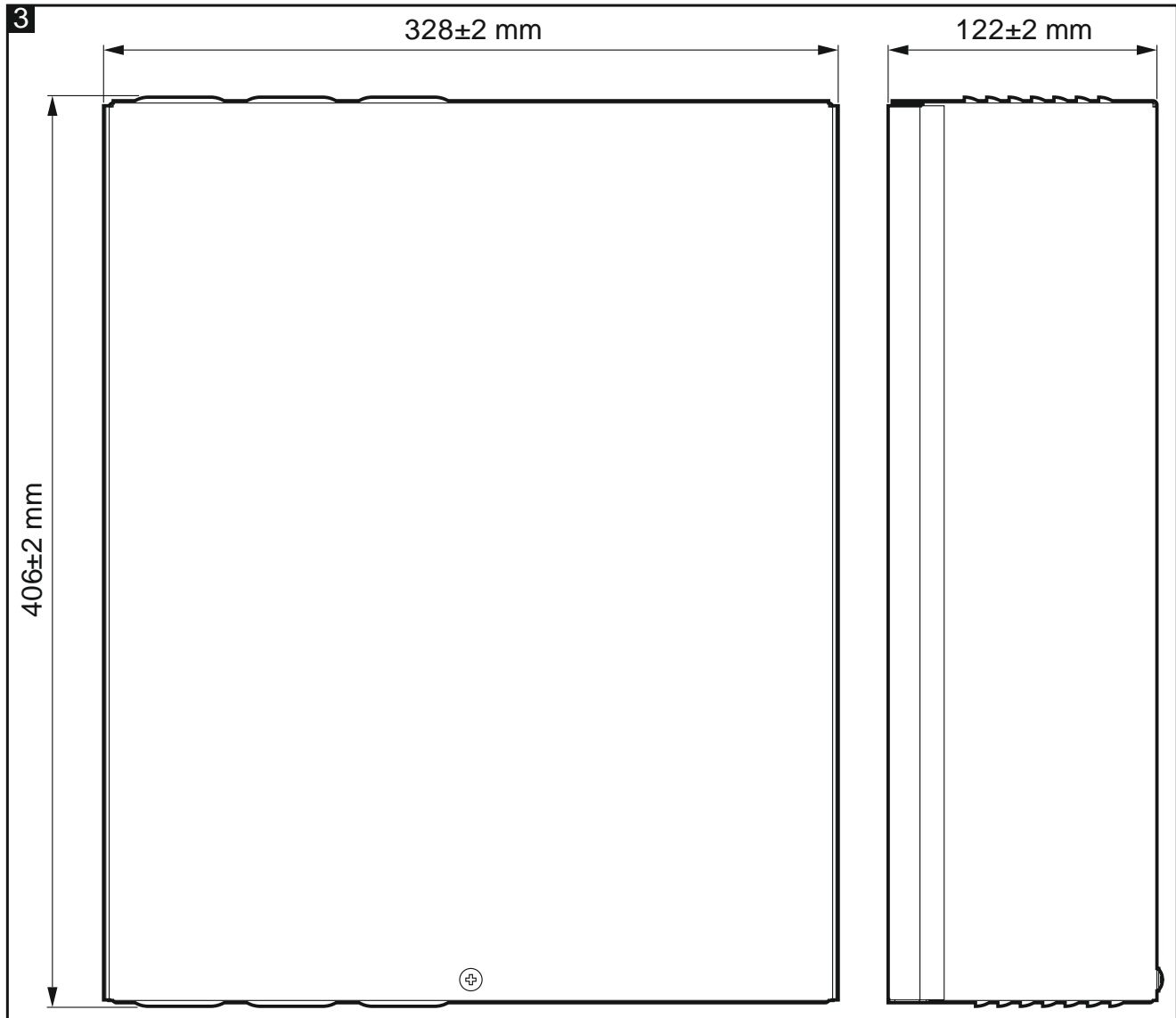
Transformer capacity must match the DC power supply output capacity.

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

7. Place the battery on the enclosure shelf, if it is required by the device.
8. Secure all devices and connect wires.
9. Replace the cover (sliding it onto the base from the top) and secure it with a screw.

4. Specifications

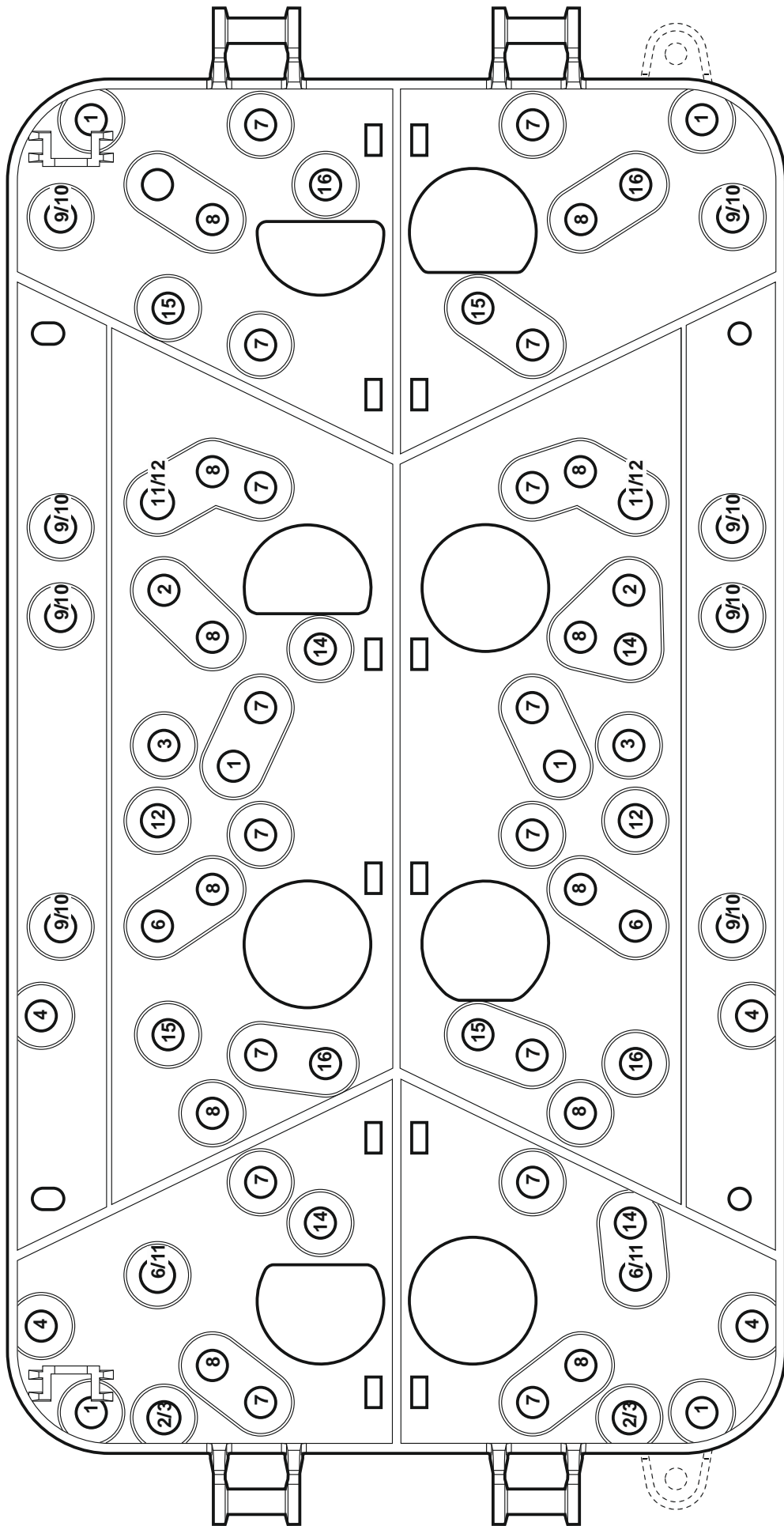
Dimensions 328x406x122 mm
Weight.....4018 g



5. Mounting inserts

You can use pins for fastening electronics boards to arrange several modules, e.g. a control panel and a few expanders without power supply, on two inserts. For a detailed list of the devices and their arrangement on the inserts, please refer to Table 2 and Fig. 4. Fastening of the outer insert allows you to tilt it outward after releasing catches on its left or right side. This provides access to the devices placed on the inner insert. The inserts are not sold together with the enclosure set. For how they should be mounted in the enclosure, see Table 1 and Figures 1 & 2.

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Hole designation	Modules to be mounted in insert holes
1	CA-64 P, INTEGRA 64, INTEGRA 128, INTEGRA 256
2	CA-10 P, CA-64 PTSA, INTEGRA 32, STAM-1 PTSA, VERSA IP, VERSA Plus*
3	APS-30, CA-6 P, CA-64 OPS, CA-64 PP, INTEGRA 24
4	ACCO-KP-PS, ACX-201, CA-5
6	CA-4V1
7	CA-10 E, MST-1, ZB-2
8	CA-64 E, CA-64 SM, GPRS-T1*, GPRS-T2*, GPRS-T4*, INT-ADR, INT-AV, INT-E, INT-FI, INT-KNX-2, INT-RS, INT-RS Plus, INT-VG, ISDN-SEP, MDM56 BO
9	CA-64 ADR, CA-64 EPS
10	CA-64 DR, CA-64 O, CA-64 SR, ETHM-1, ETHM-1 Plus, INT-O, INT-PP, INT-R, INT-VMG, MP-1, VIVER, VMG-16
11	GSM-4*, GSM-5*
12	ACCO-KP, GSM LT-1*, GSM LT-2*
14	ETHM-2, GPRS-T6*, VERSA 5
15	ACCO-NT, PERFECTA 16*, PERFECTA 32*, VERSA 10
16	VERSA 15

Table 2. List of devices that can be mounted on the plastic mounting inserts as shown in Fig. 4 [* devices with GSM phone require antenna to be mounted on the outside of the enclosure, e.g. ANT-900/1800 antenna with magnetic holder].



Devices that support radio devices of ABAX 2 / ABAX or MICRA systems must not be mounted inside the OMI-5 metal enclosure.