

AMC2 ENC3 Enclosure

AEC-AMC2-ENC3 | AEC-AMC2-ENC3Z



BOSCH

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2 Safety and Warranty

2.1 Important safety notes

1. **Read, Follow, and Retain Instructions** – All safety and operating instructions must be read and followed properly before putting the unit into operation. Retain instructions for future reference.
2. **Consider all Warnings** – Adhere to all warnings on the unit and in the operating instructions.
3. **Accessories** – Use only accessories recommended by the manufacturer or those sold with the product. Accessories not recommended by the manufacturer shall not be used, as they may cause hazards.
4. **Installation Precautions** – Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to persons and damage to the unit. Mount the unit according to the manufacturer's instructions.
5. **Service** – Do not attempt to service this unit by yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.
6. **Damage Requiring Service** – Disconnect the unit from the main AC or DC power source and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged.
 - If liquid has been spilled or an object has fallen into the unit.
 - If the unit has been exposed to water and/or inclement weather (rain, snow, etc.).
 - If the unit does not operate normally, when following the operating instructions. Adjust only those controls specified in the operating instructions. Improper adjustment of other controls may result in damage, and require extensive work by a qualified technician to restore the unit to normal operation.
 - If the unit has been dropped or the cabinet damaged.
 - If the unit exhibits a distinct change in performance, this indicates that service is needed.
7. **Replacement Parts** – When replacement parts are required, the service technician shall use replacement parts that are specified by the manufacturer. Unauthorized substitutions may result in fire, electrical shock or other hazards.
8. **Safety Check** – Upon completion of service or repair work on the unit, ask the service technician to perform safety checks to ensure that the unit operates properly.
9. **Power Sources** – Operate the unit only from the type of power source indicated on the label. If unsure of the type of power supply to use, contact your dealer.
 - For units intended to operate from battery power, refer to the operating instructions.
 - For units intended to operate with External Power Supplies, use only the recommended approved power supplies.
10. **Lightning** – For added protection during a lightning storm, or when this unit is left unused for long periods of time, disconnect the unit from power. This will prevent damage to the unit due to lightning and excessive power line surges.
11. **Restricted Access Locations** are required for the installation.

2.2 FCC information

**NOTICE!**

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

3 **Short Information**

This guide is designed for the configurers who need to plan and install the enclosure within the premise of the building. Mounting the enclosure involves drilling of the walls. Therefore, recommendations and instructions are included to aid in the planning and installation of the enclosure.

4 System Overview

The enclosure has been produced in accordance with strict guidelines, and is used for securely mounting and housing the AMC and a power supply.

4.1 Parts of the enclosure

The panel casing (without the cover) includes the following parts.

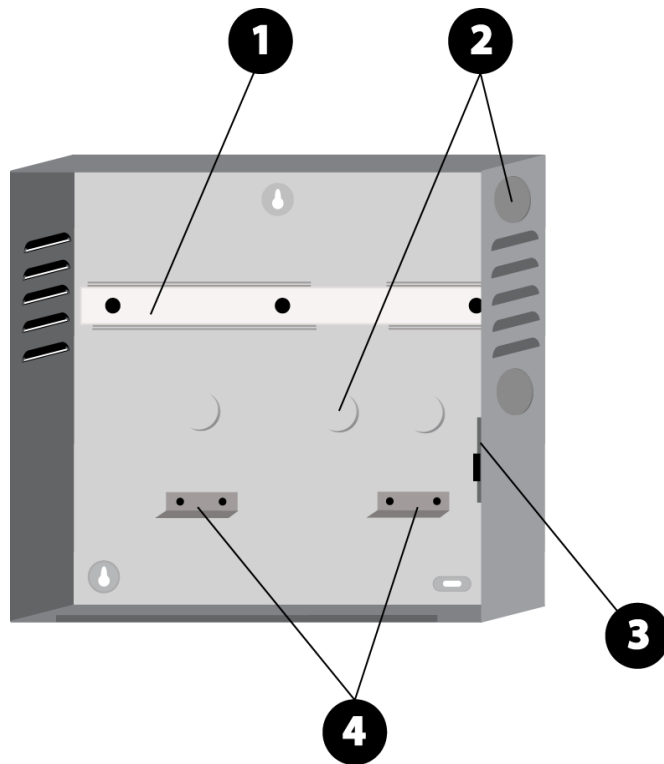


Figure 4.1 Parts of the enclosure

Number	Part
1	Mounting rail for AMC
2	Cable knockouts for reader and signal cables
3	Cover tamper switch
4	Battery clips

4.2 Dimensions of the enclosure

Dimensions of the panel casing are as of below:

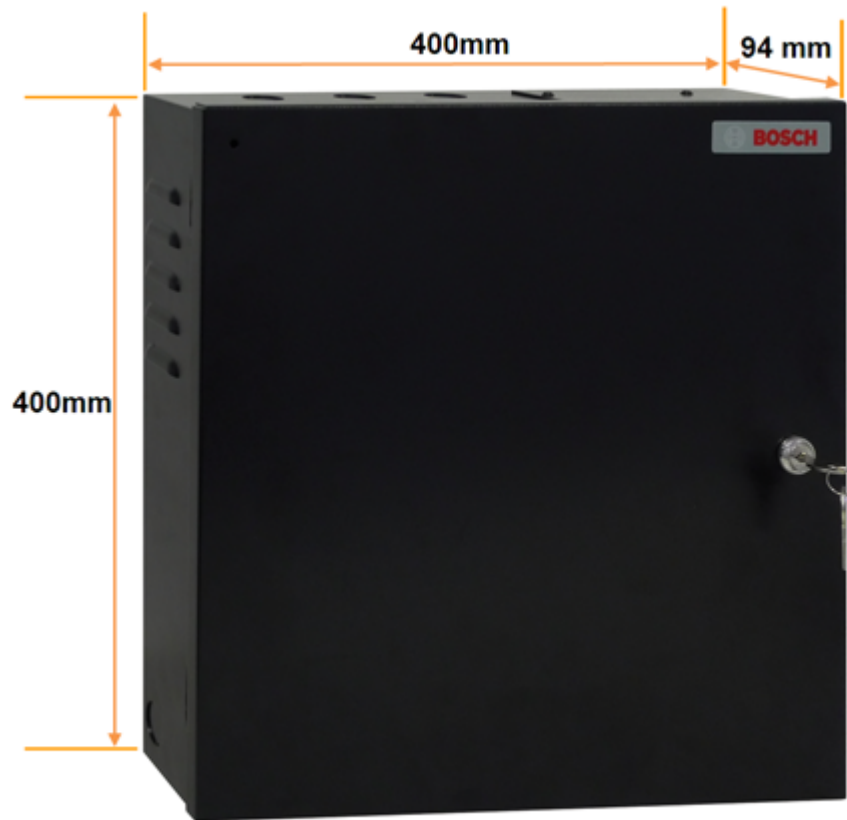


Figure 4.2 Dimensions of the enclosure

Dimension (W x H x D)	400 mm x 400 mm x 96 mm (15.75 in x 15.75 in x 3.7 in)
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5 Planning the Mounting Location

Before mounting the enclosure, proper planning ensures that you encounter less issues. Obtain the mounting location details before installing the enclosure.

The mounting location for the enclosure should provide:

1. protection from unauthorized access
2. protection from accidental damage
3. (ideally) an uninterruptable power supply (UPS)
4. protection from electrical interference
5. an environment temperature range of 0°C to 50°C
6. an environment humidity of 5% to 85%, $\pm 5\%$ RH
7. a network connection point – either a wall jack, or an available hub where a category 5 ethernet cable can be plugged in, to provide the AMC with access to the customer's network.

6 Mounting the Enclosure

This section addresses the mounting procedure of the enclosure. For mounting, always use hardware and materials appropriate to the nature of the surface upon which the enclosure is to be mounted. The following instructions describe the basic steps to mount the enclosure on a concrete wall.

**WARNING!**

Always use hardware and materials appropriate to the nature of the mounting surface. If in doubt, consult a certified technician.

1. After confirming the mounting location, mark out the exact position of the mounting holes.
 - a. Place the panel against the wall, over the area where the enclosure is to be mounted.
 - b. Use a marker to mark out the exact positions of the mounting holes from the panel. Make sure that the panel is held firmly in place before the markings are completed.
2. Drill on the marked out position on the wall.
 - a. Use a concrete drill bit with a hammer drill for drilling on a concrete wall.
 - b. Ensure drill bit is placed perpendicular to the wall surface before commencing drilling. Drilled hole should be perpendicular to the wall surface.
 - c. Drilled hole should be such that a stainless steel sleeve anchor bolt can be fully inserted into the hole.
3. Insert the stainless steel sleeve anchor bolt into the drilled hole, and tighten the nuts to mount the panel in place.
 - a. Use a hammer to lightly hammer the bolt in.
 - b. Place the panel over the bolts.
 - c. Insert a flat washer, followed by a spring washer, before tightening each nut to fix the panel in place.

**WARNING!**

The bolt should fit snugly in the drilled hole. Do not mount the panel on a bolt that fits loosely in the drilled hole.

7 Connecting the Devices

This section provides information on connecting the various devices within the enclosure.

7.1 Connecting the devices in AEC-AMC2-ENC3

1. Mount the AMC on the rail (item 1 in *Figure 4.1*).
2. Place the battery on the bottom of the panel, and secure them beneath the battery clips (item 4 in *Figure 4.1*).
3. Connect the 2-pin screw connector of the cover tamper switch to the tamper contact at the top of the AMC. Position the cable in the space between the housing and the mounting rail.



Figure 7.1 Connecting the cover tamper switch

4. Connect the 7-pin screw connector of the power supply unit (PSU) to the power supply contact at the bottom of the AMC. Position the cable in the space between the battery and the AMC panel.



Figure 7.2 Connecting the power supply unit

5. Connect and turn on the main AC supply.

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