Enclosures

AE2 and AE4

BOSCH

en Installation Manual

1 Safety

Warning!
Do not flush mount!
Regulatory agency requirements prohibit flush mounting, these enclosures.

Caution!
Ensure the enclosure has a proper earth ground.

Before installing the enclosure:

- Determine the total weight of the enclosure with the modules and batteries included. Choose a mounting location and surface that can support this weight, and select appropriate mounting hardware.
- Ensure that the environmental conditions of the mounting location comply with the technical specifications listed.
- Ensure that there is sufficient room to open the cabinet door fully, and to easily install, wire and maintain the components within the enclosure.

Notice!
Refer to the control panel literature for instructions on connecting secondary (battery) power.

2 Description

The AE2 Standard Enclosure (red) and AE4 Large Enclosure (red) can house many Bosch Security Systems, Inc. control panels and peripheral modules. These enclosures are compatible with an enclosure tamper switch, and can hold up to two batteries. Both the AE2 and AE4 are suitable for residential fire/burglary and commercial fire/burglary applications.

3 Installation

For enclosure details, see the following figure:

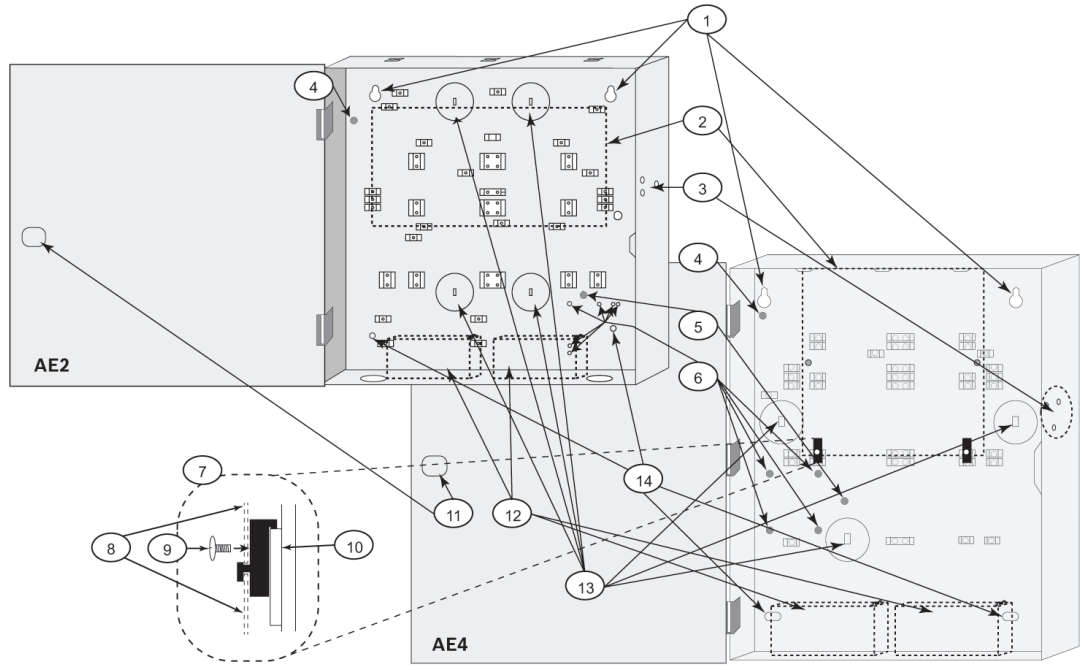

Figure 3.1: AE2 and AE4 enclosure features

1	Top enclosure mounting holes (2 per enclosure)	2	Control panel\module mounting locations
3	ICP-EZTS Tamper Switch mounting holes (3)	4	Grounding pins for connection enclosure cover to base
5	Grounding pin for connecting transformer to base	6	Transformer mounting holes
7	Support post assembly	8	Possible printed circuit board mounting locations
9	Screw to connect mounting clip or mounting clip and printed circuit board to enclosure	10	AE2/AE4 Enclosure standoff
11	Mounting location for lockset	12	Battery mounting location (two 7 Ah, 12 Ah, or 18 Ah batteries)
13	Knockouts for wiring	14	Bottom enclosure mounting holes (2 per enclosure)

3.1 Installing enclosure

To install an enclosure, follow these instructions:

1. Knock out the desired wire entrances on the enclosure.
2. Using the enclosure as a template, mark the top mounting holes on the mounting surface.
3. Start installing the mounting hardware (as determined by surface and weight of enclosure, modules, and batteries) for these two holes.

4. Slide the enclosure onto these mounting hardware so that the enclosure rests on the thinner section of the holes.
5. Tighten the mounting hardware.
6. Install and tighten the remaining mounting hardware in the bottom two mounting holes.

Warning!
Before installing the circuit board, connect the supplied ground wires between the door and enclosure and from a transformer, if used, to the enclosure.

7. Grounding the door:
   For grounding the door to the AE2 enclosure, slide the spade end onto either of the tabs at the bottom of the door hinges and connect the other end to the ground post located to the right of the bottom knockouts using a washer and nut (not supplied) to hold the wire tightly to the enclosure.
   For grounding the door to the AE4 enclosure, connect one end of the wire to the ground post on the enclosure door and the other end to the ground post located just under the left top mounting hole using the supplied nuts.
8. Grounding the transformer:
   The AE2 enclosure can contain two D126 (7 Ah) batteries and a control board, but in this configuration the transformer must be installed in a separate enclosure. If a control board and transformer are installed in the AE2 enclosure, the batteries must be installed in a separate enclosure and the transformer grounded at the same point where the AE2 base and cover are grounded together (see Figure 3.1, callout 4).
   For grounding a transformer to the AE4 enclosure, connect the ground wire from the transformer\power cord to the ground post located to the right of the transformer mounting posts.

4 Technical data

Environmental

Environment:	Indoor, dry

Mechanical

Color:	Red
Dimensions	
AE2:	Base: 14.5 in. x 12.5 in. x 3.4 in. (368 mm x 318 mm x 87 mm) Cover: 14.67 in. x 12.6 in. x 0.6 in. (373 mm x 320 mm x 15.3 mm)
AE4:	Base: 20.4 in. 14.8 in. x 4.1 in. (519 mm x 376 mm x 105 mm) Cover: 20.6 in. x 14.92 in. x 0.7 in. (524 mm x 379 mm x 17.8 mm)
Material	
AE2:	Base: Cold-rolled steel; 20 guage (0.9 mm) Cover: Cold-rolled steel; 19 guage (1.06 mm)
AE4:	Base: Cold-rolled steel; 18 gage (1.2 mm) Cover: Cold-rolled steel; 19 gage (1.06 mm)
Weight	
AE2:	~5.95 lb (2.7 kg)
AE4:	~11.7 lb (5.3 kg)
Replacement Lock and Key Sets	
AE2:	Lock set: D101-PK625 (F01U078839) with 2 keys; Replacement Key (1): KEY-625 (4.998.113.249)
AE4:	Lock set: LOCK-1358 (F.01U.083.084) with 2 keys; Replacement Key (1): D102 (F.01U.020.510)

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, NY 14450
USA
www.boschsecurity.com
© Bosch Security Systems, Inc., 2016

Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany