

Installation Guide

EC16 Metal Enclosure

Version: 1.0

1 Safety Instruction

⚠ Please note the following cautions. Mis-operation may lead to any injury or equipment failure:

1. Do not power the system before installation is complete.
2. All peripheral devices must be grounded.
3. The conduits of wires under relay must be matched with metaled conduits, other wires can use PVC conduits.
4. It is strongly recommended that the length of the exposed part of any connection cable should not be longer than 4 mm. Professional clamping tools may be used to avoid unintentional contact of exposed wires to avoid short-circuit or communication failure.
5. It is recommended that the card readers and the buttons should be installed at a height of 1.4m-1.5m above ground.
6. It is recommended to use the power supply for the control panel, and external power supply for each lock.
7. The appliance shall be installed and wired in accordance with the national electrical code and by qualified personnel only.

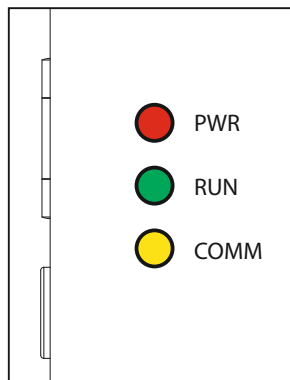
2 Control Panel LED Indicators

There is 3 LED indicator present in the device, they are POWER (Red), RUN (Green) & COMM. (Yellow).

When the EC16 is powered on, normally the POWER indicator (Red) is lit constantly and the RUN indicator (Green) flashes slowly (indicating the system is functioning normally).

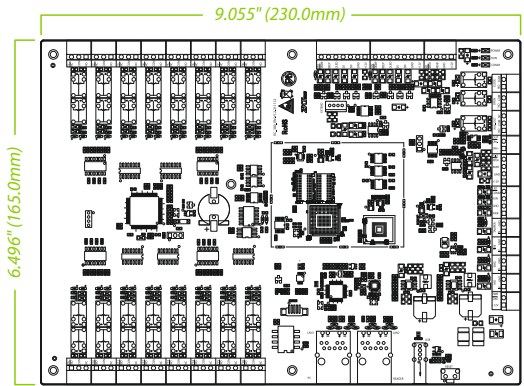
COMM Indicator (Yellow): It flashes when the system is communicating with other devices (e.g., PC).

When the indicator is flashing rapidly it indicates data transmission. When the indicator is flashing slowly, it indicates real-time monitoring status.

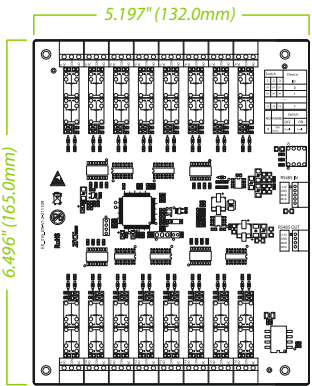


3 Product Dimension

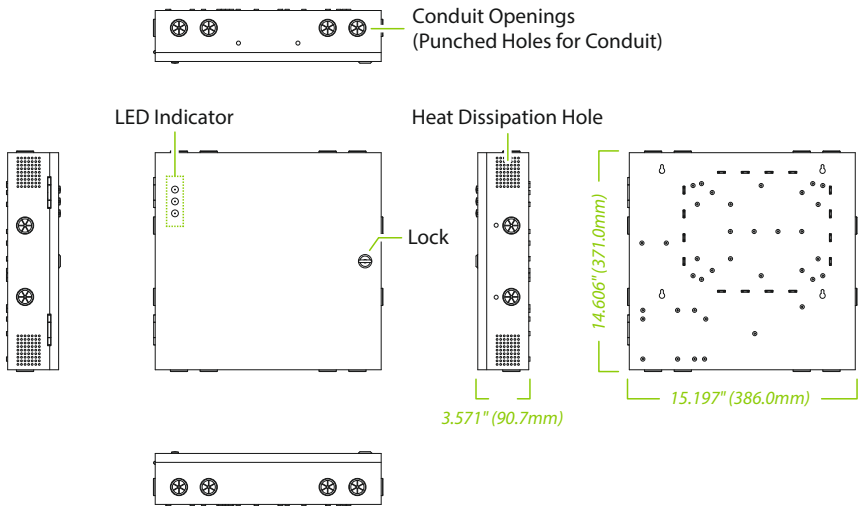
EC16 Master Control Panel



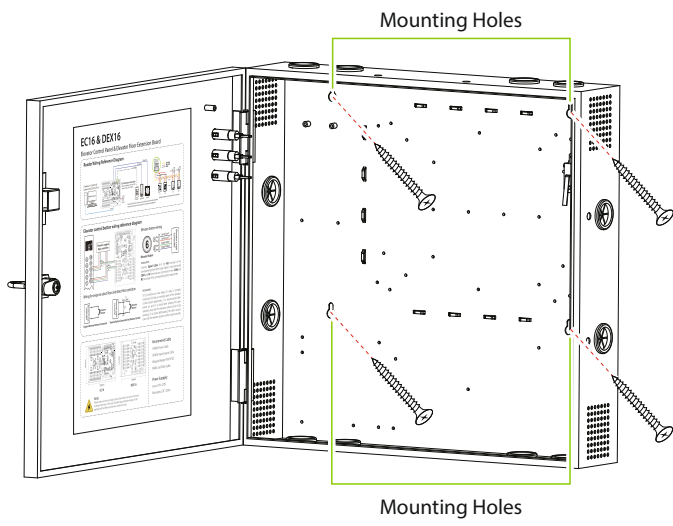
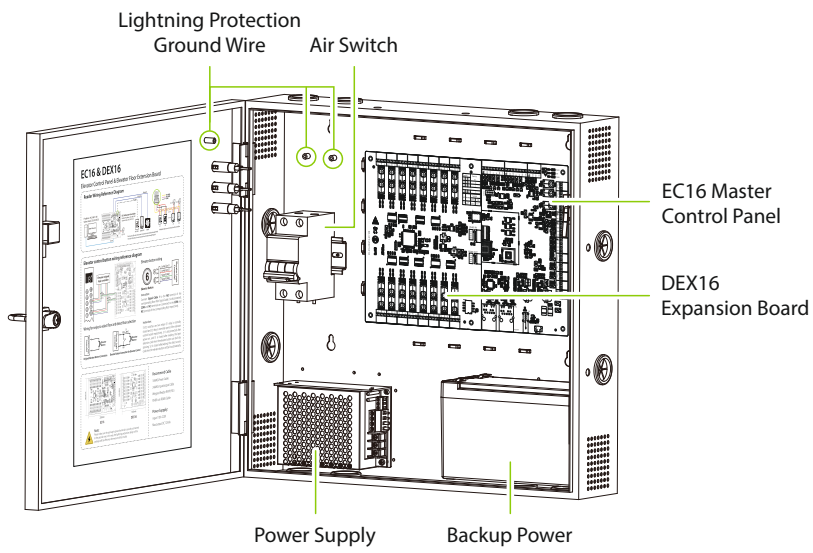
DEX16 Expansion Board



EC16 Metal Enclosure



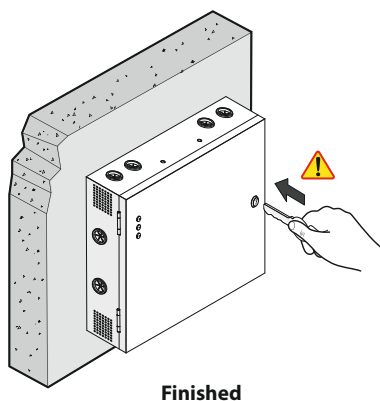
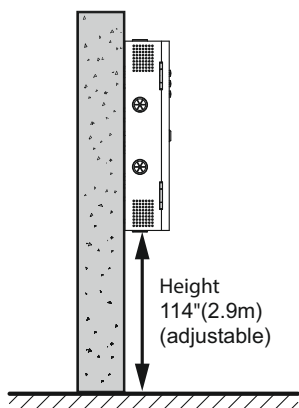
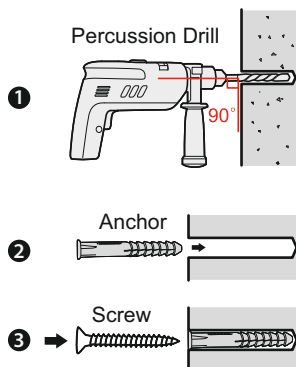
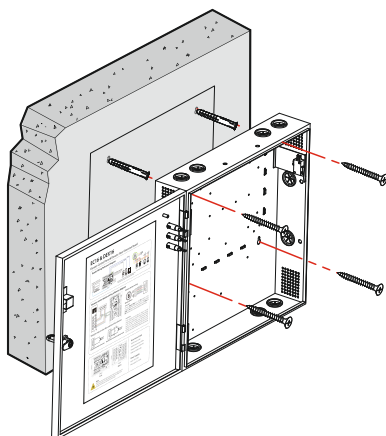
4 Installation of Panel & Enclosure



We recommend drilling the mounting plate screws into solid wood (i.e. stud/beam).

5 Installation of the Metal Enclosure on the wall

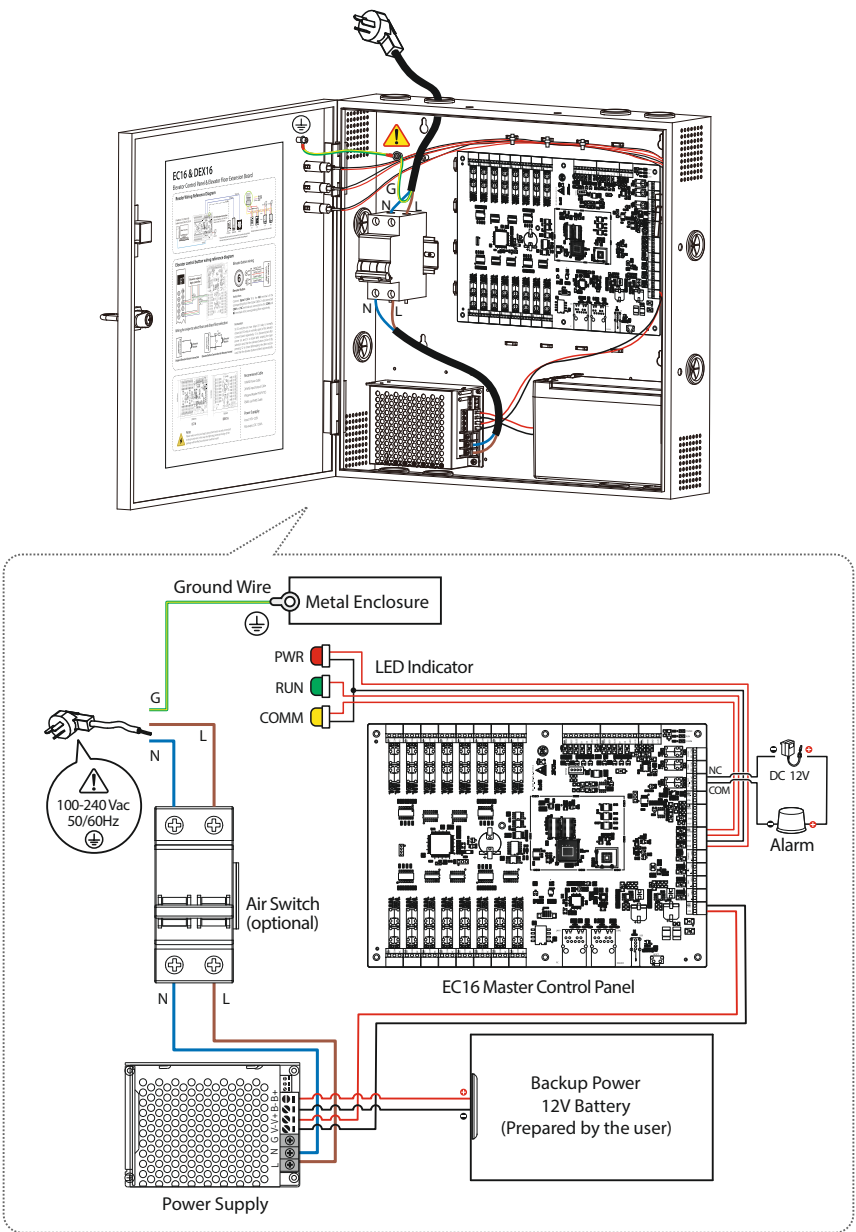
1. According to the mounting holes position of the metal enclosure. Drill four mounting holes in a suitable spot on the wall and make sure it is about 114 inches (2.9m) above the ground, which can be adjusted according to actual needs. Take care to leave at least 3.937 inches (100 mm) on the left side of the metal enclosure.
2. Place the Anchors in the mounting holes.
3. Then fix the metal enclosure with the self-tapping screws as shown below.



Note: The metal enclosure is equipped with an tamper alarm switch. When the equipment works normally, please keep the enclosure closed.

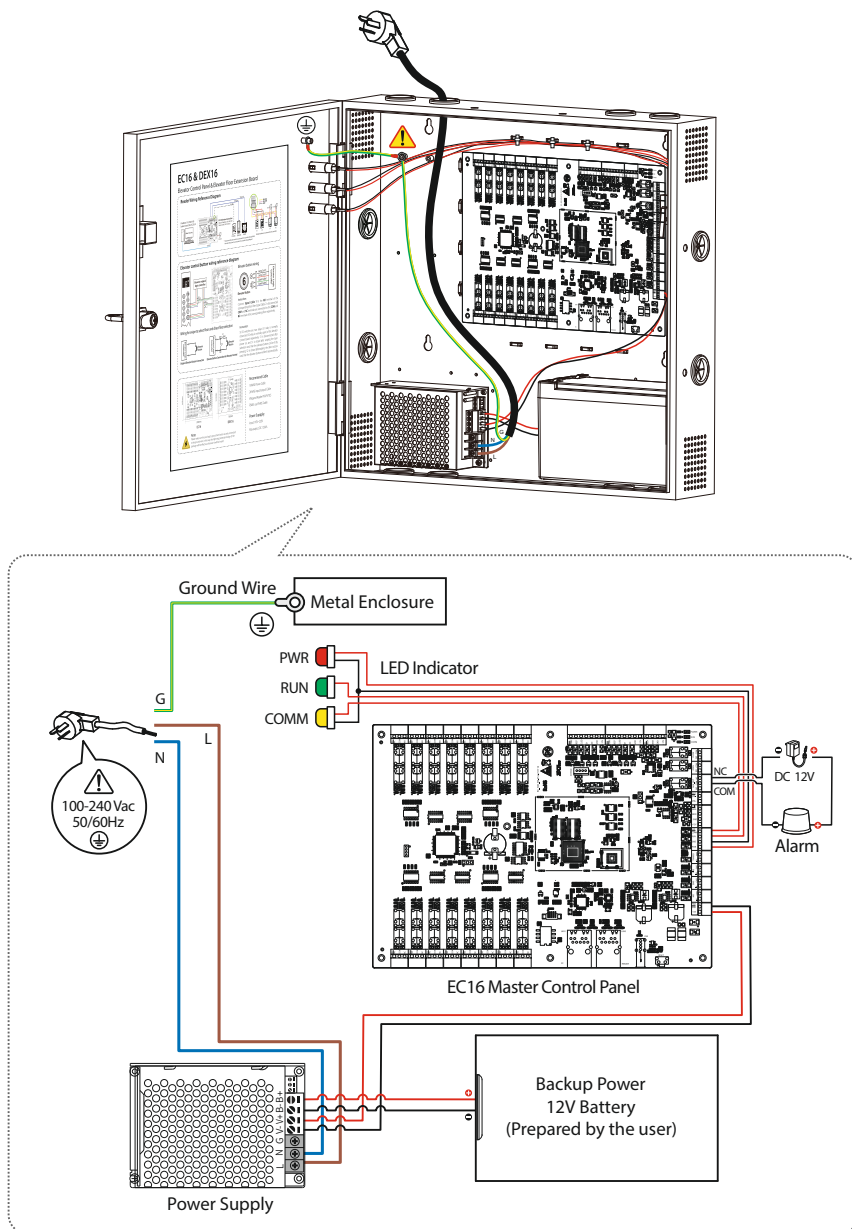
6 Internal Wiring Diagram

❖ Wiring diagram with air switch (optional)



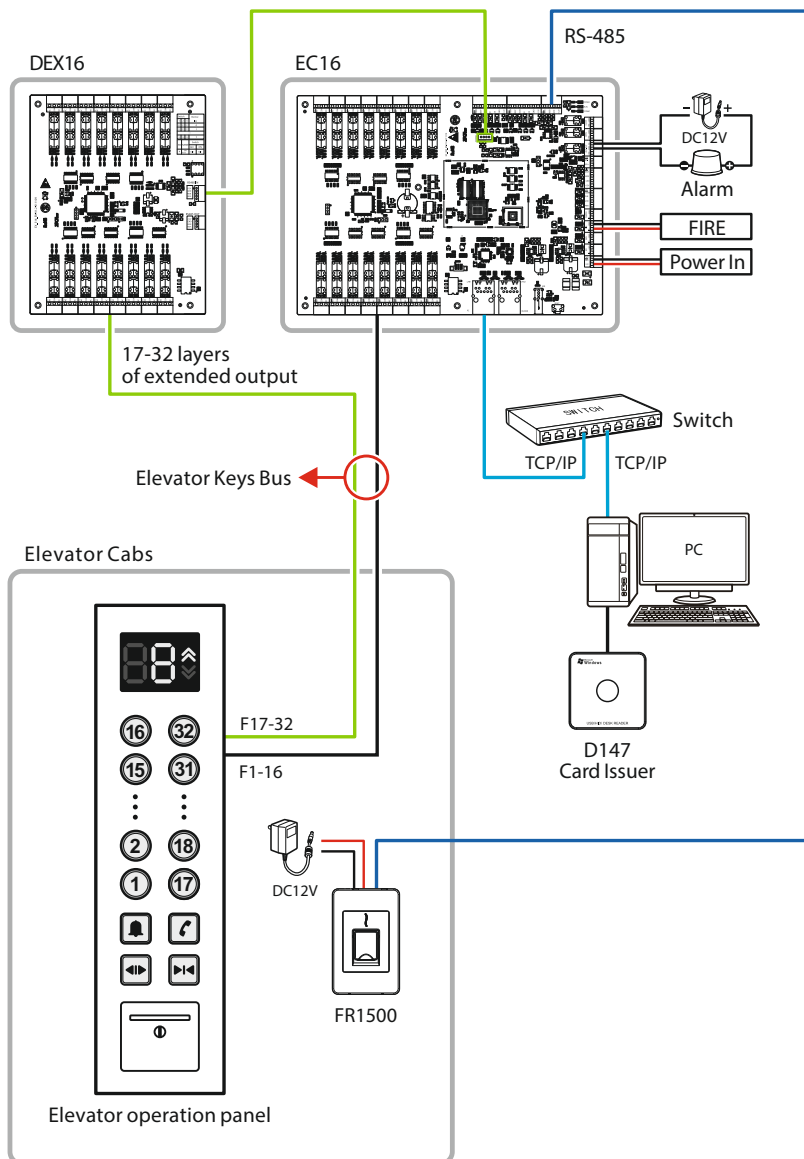
Note: The ground wire shall be grounded during installation, otherwise lightning protection will be affected.

❖ Wiring diagram without air switch



Note: The ground wire shall be grounded during installation, otherwise lightning protection will be affected.

7 Wiring Legend



Note: For more details, please refer to the relevant *User Manual*.

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