



**DEFENDAS**

# Installation Guide

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ST Series

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 0.157"(4mm). 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 55"-59" (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 6 LED indicator present in the device, they are POWER(Red), RUN1(Green), COMM1(Yellow), COMM2 (Yellow), WLAM (Green) & Door (Green).

When the STX00B is powered on, normally the **POWER** indicator (red) is lit constantly, the **RUN** indicator (green) shall flash slowly (indicating the system is normal), and other indicators are all off.

**COMM1** indicator (yellow): It flashes when the system is communicating with upper-level devices (e.g., PC).

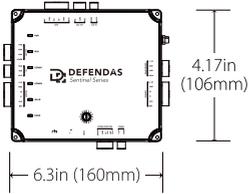
**COMM2** indicator (yellow): It flashes when the system is communicating with lower-level devices (e.g., readers). When the indicator is flashing continuously, it indicates data transmission. When the indicator is flashing slowly, it indicates real-time monitoring status.

**WLAM** indicator (green): When the indicator is flashing continuously, it indicates the system is communicating in wireless (Wi-Fi) mode.

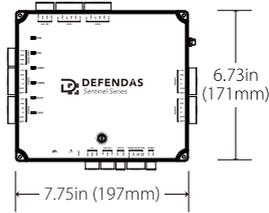
**DOOR** indicator (green): When the indicator is flashing continuously, it indicates a door opening signal (a door is opened).

# 3 Product Dimension

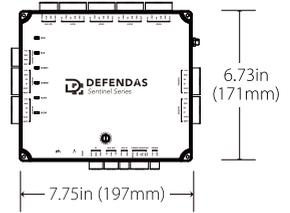
ST100B



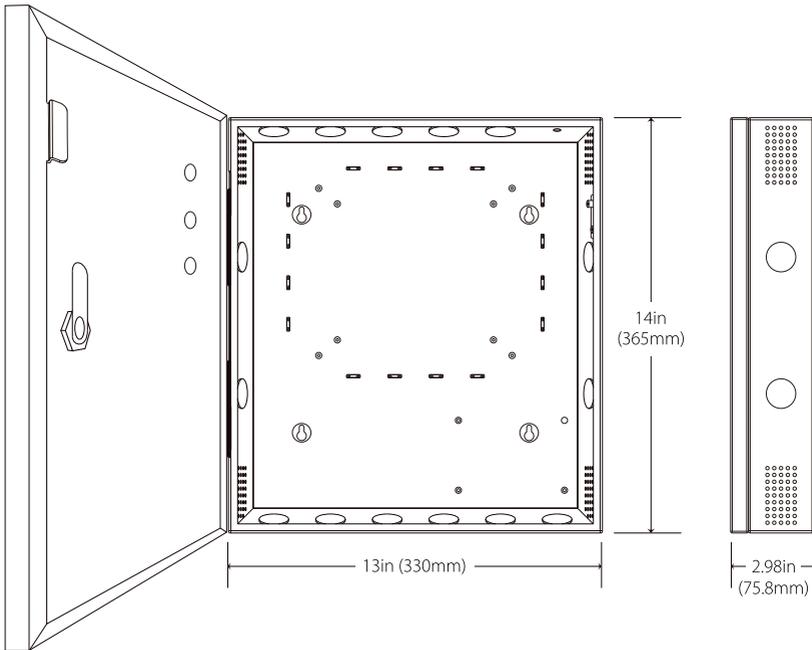
ST200B



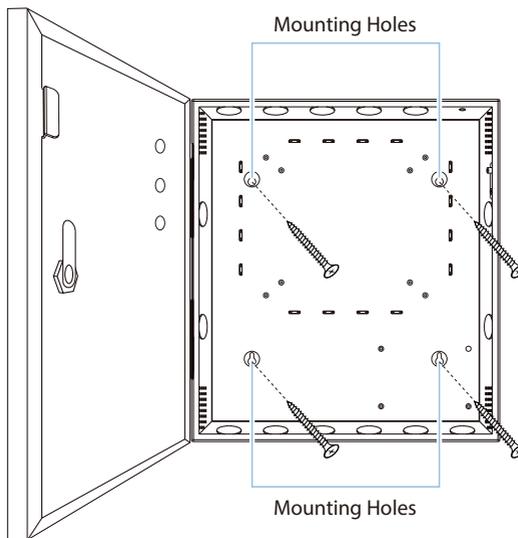
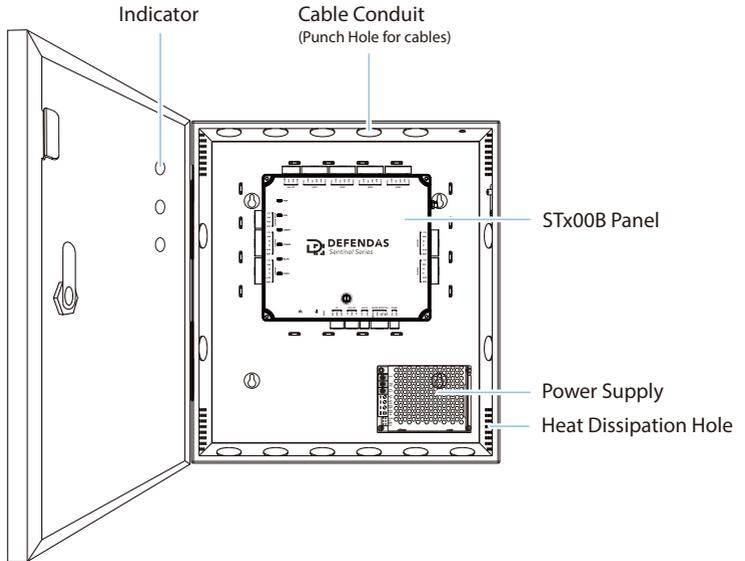
ST400B



STx00B Metal Cabinet

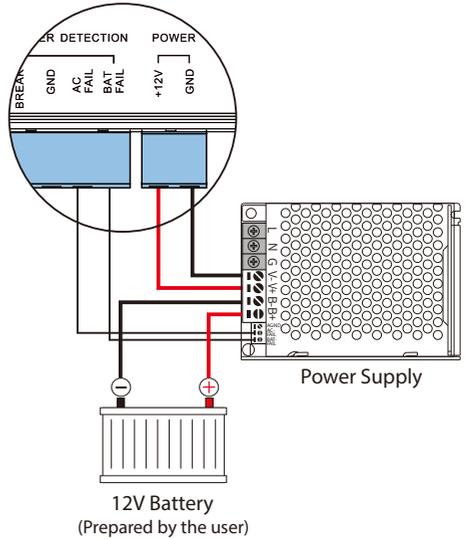
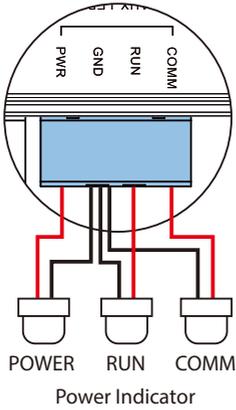
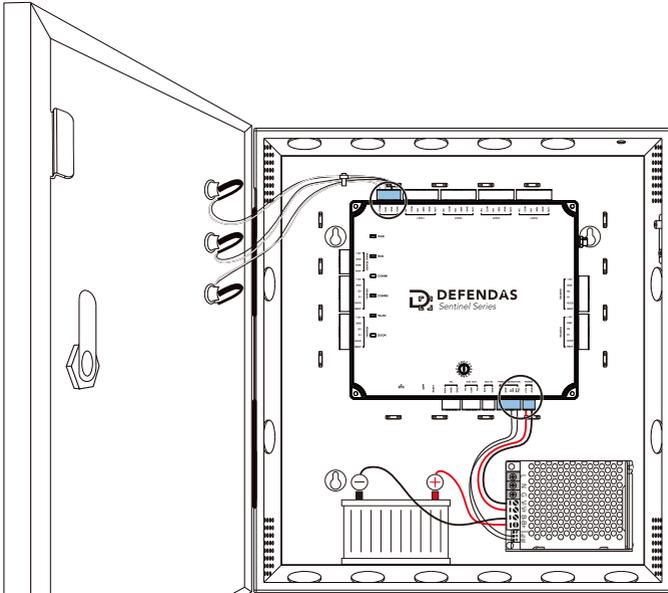


## 4 Installation of Panel & Cabinet

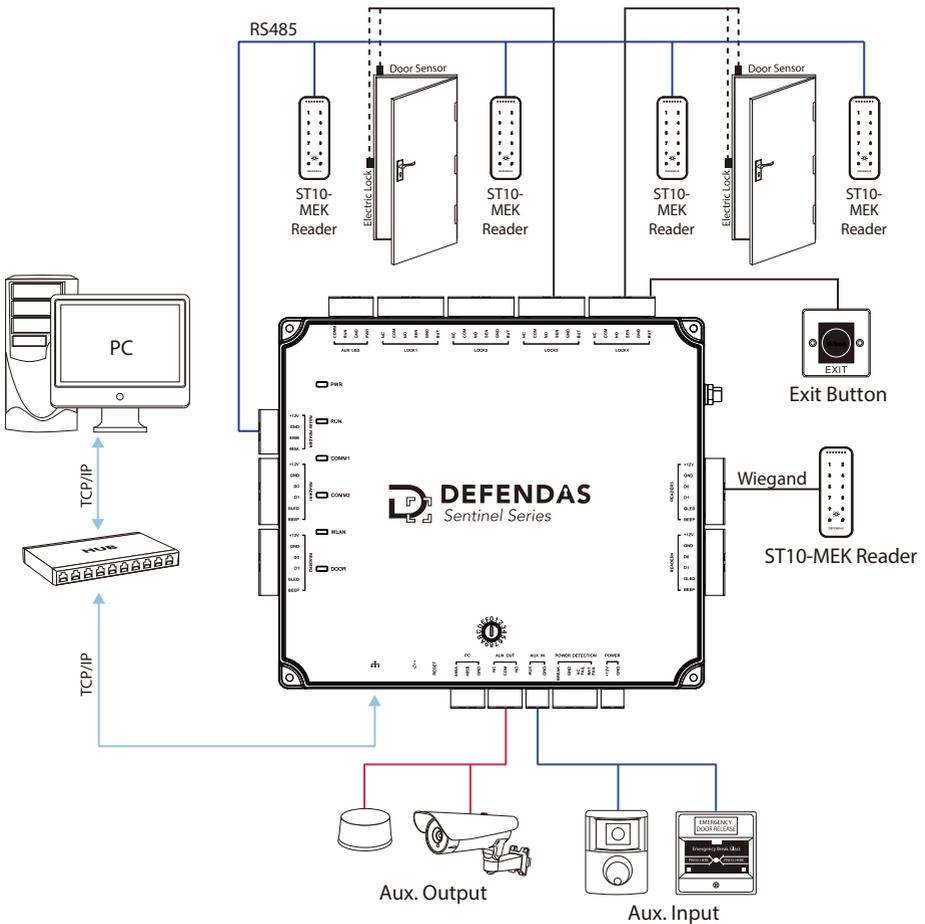


We recommend drilling the mounting plate screws into solid wood (i.e. stud/beam).  
If a stud/beam cannot be found, then use the supplied drywall plastic mollies (anchors).

# 5 Internal Wiring Diagram



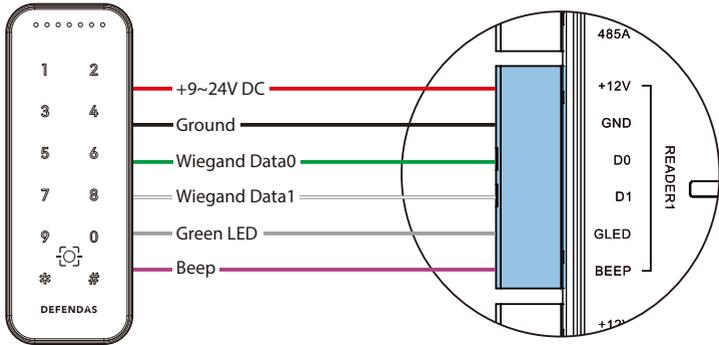
## 6 Wiring Legend



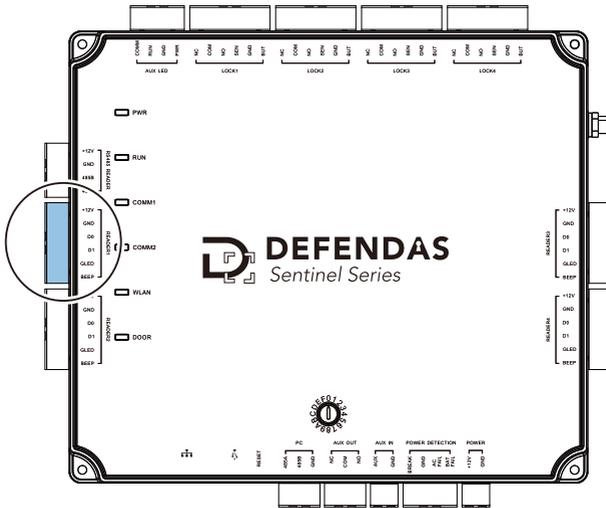
### Notes:

1. The auxiliary input may connect to infrared body detectors, fire alarms, or smoke detectors.
2. The auxiliary output may connect to alarms, cameras or doorbells, etc.
3. The RS485 Reader port can be connected externally to RS485 reader.
4. The terminals above are set through the relevant access control software. Please see the respective software manual for further details.

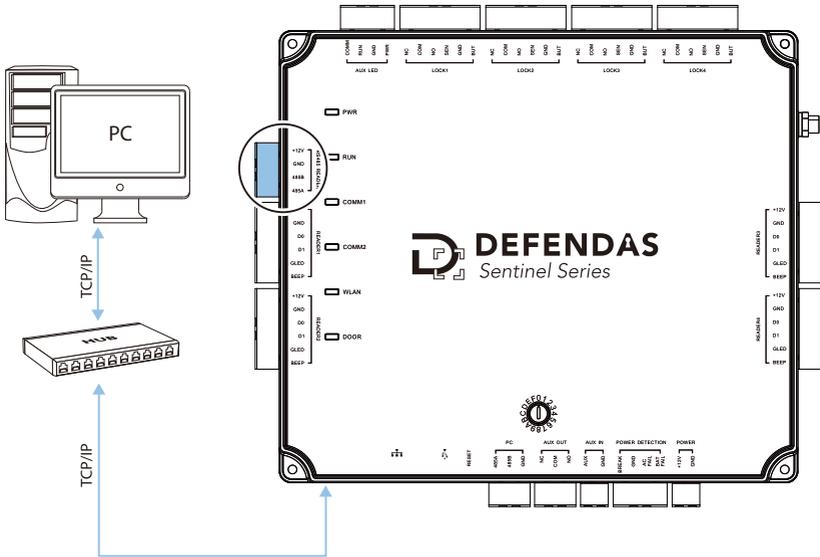
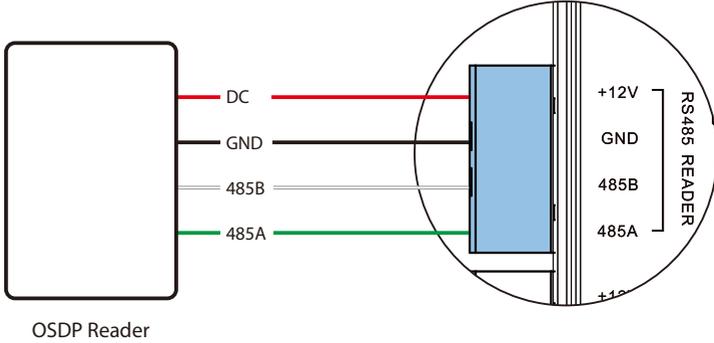
# 7 Wiegand Connection



ST10-MEK Reader



# 8 OSDP Connection



**Note:** OSDP and RS485 cannot be connected to one control panel at the same time.



# 11 Lock Relay Connection

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO Lock** (Normally Opened when powered) is connected with 'NO' and 'COM' terminals, and the **NC Lock** (Normally Closed when powered) is connected with 'NC' and 'COM' terminals. As shown in the example with NC Lock below.

