KEYKING DPU3000POE Serires

System configure

KEYKING
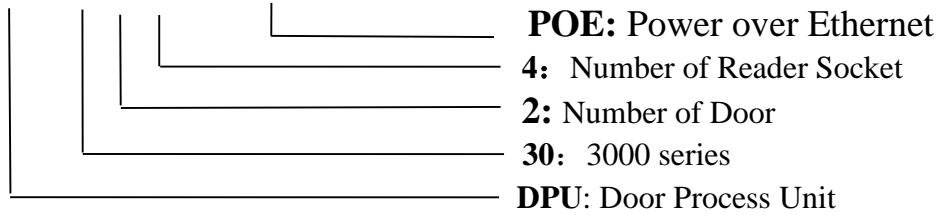
Keyking Group

Catalog

Chapter 1   KEYKING Overview

1.1   Basic Composition of Access Control System

KEYKING access control system, including DPU1000, DPU3000, DPU3000POE and DGS500 series. In this manual, we focus on the DPU3000POE access control system.

Model Identification：

DPU 30   2 4   POE

POE: Power over Ethernet
4： Number of Reader Socket
2: Number of Door
30： 3000 series
DPU: Door Process Unit

DPU3000POE access control system is consist of DPU3012POE, DPU3022POE, DPU3024POE, DPU3044POE, DPU3048POE, Reader, Lock, Proximity Card 、 Sphinx4.4 software and some product accessories.
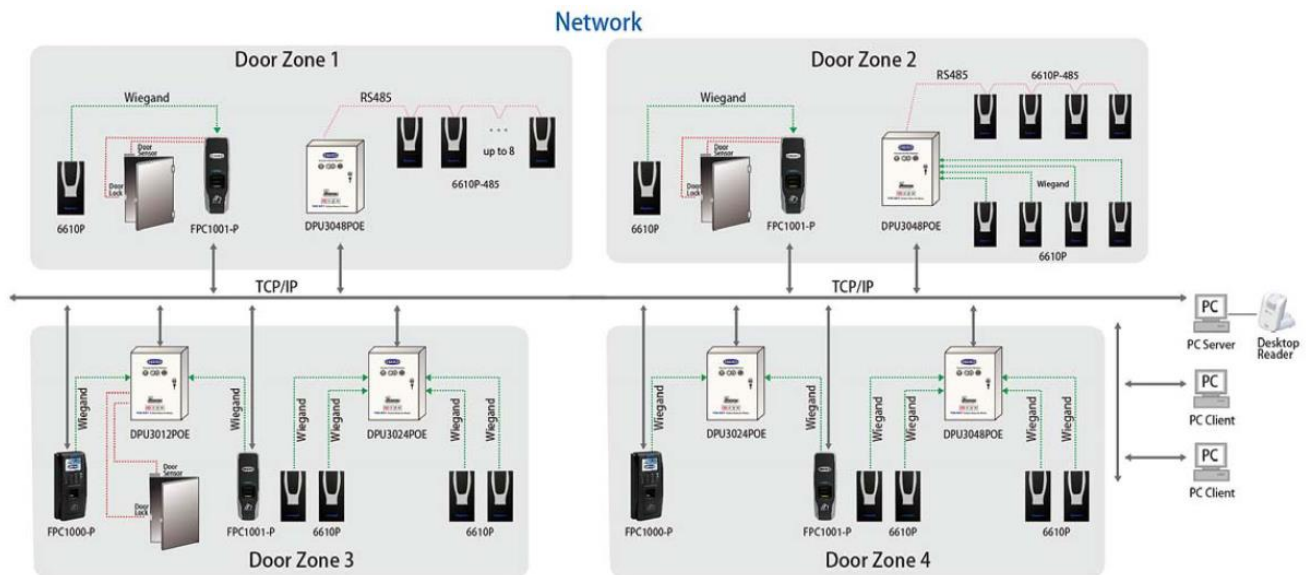
System Diagram：

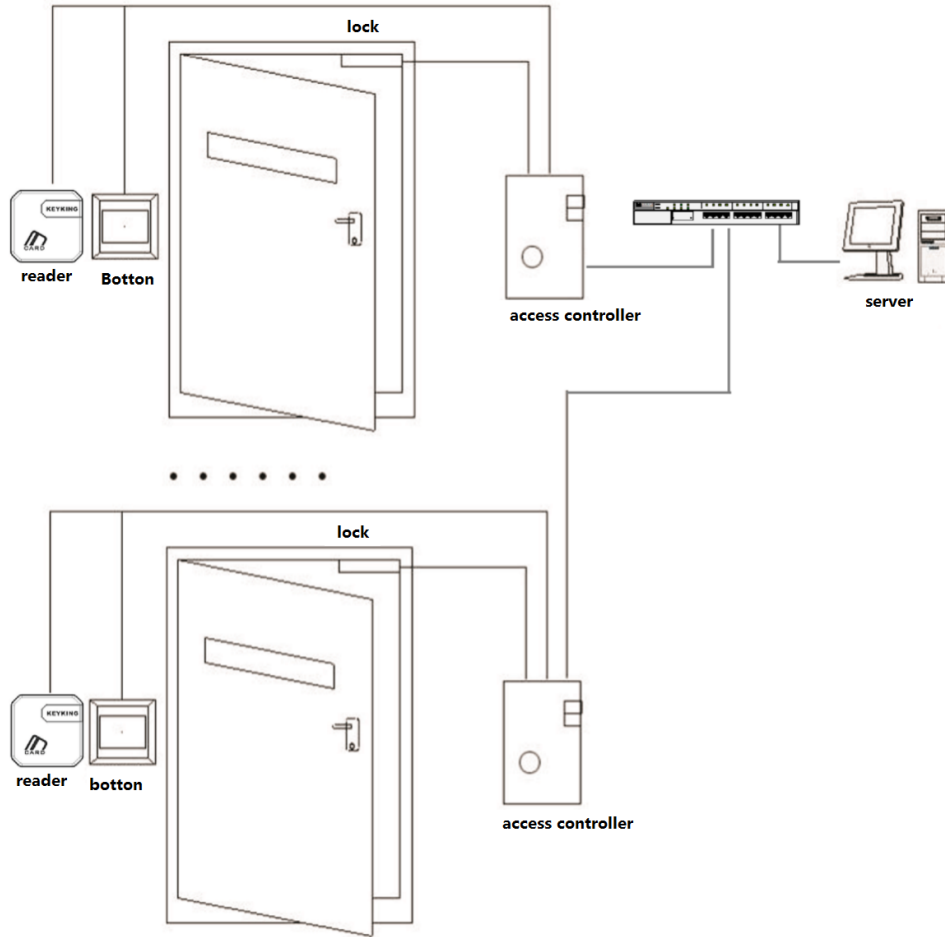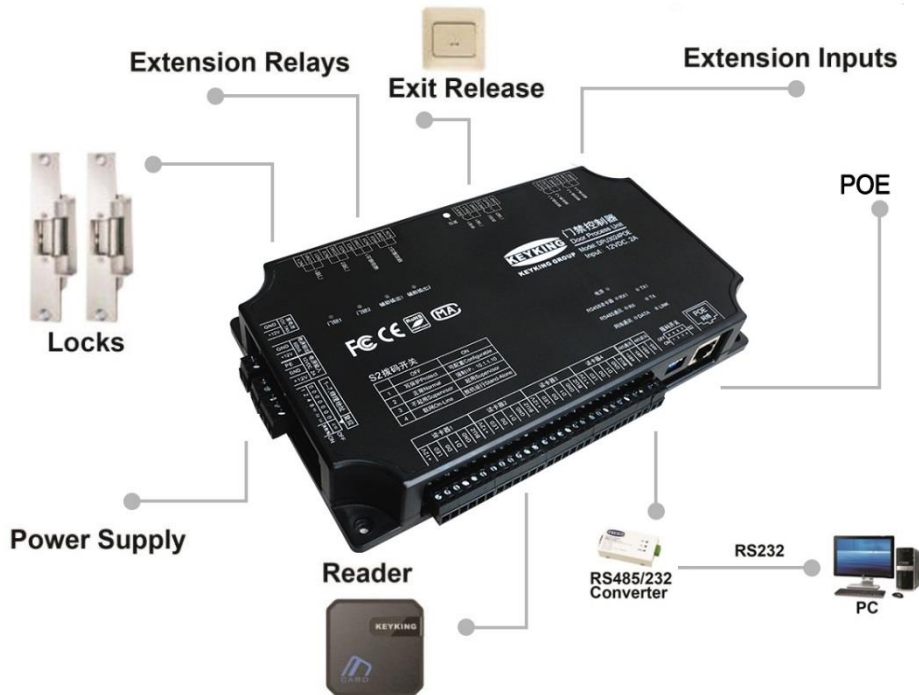Figure 1-1-1 DPU3000POE series connection diagram

Figure 1-1-2

Figure 1-1-3

Chapter 2   PCB Layouts & Features

DPU3000POE series are new design and state-of-the-art 1\2\4\8 doors access controllers made by KEYKING, it's the most effective solution for today's intelligent building. Perfectly designed to work with the Sphinx Software. The DPU3000POE series allows wide range of security levels, according to the security level required at the location of the DPU3000POE, which can be used to control and record employee entry\exit inside or outside of restricted areas. The recorded data may be automatically fed into Sphinx security software.

Each type of DPU3000POE controller can work independently, both offline and online. When working offline, it will store all the security definitions, as well as card holders and transactions information.

DPU3000POE Order Information：

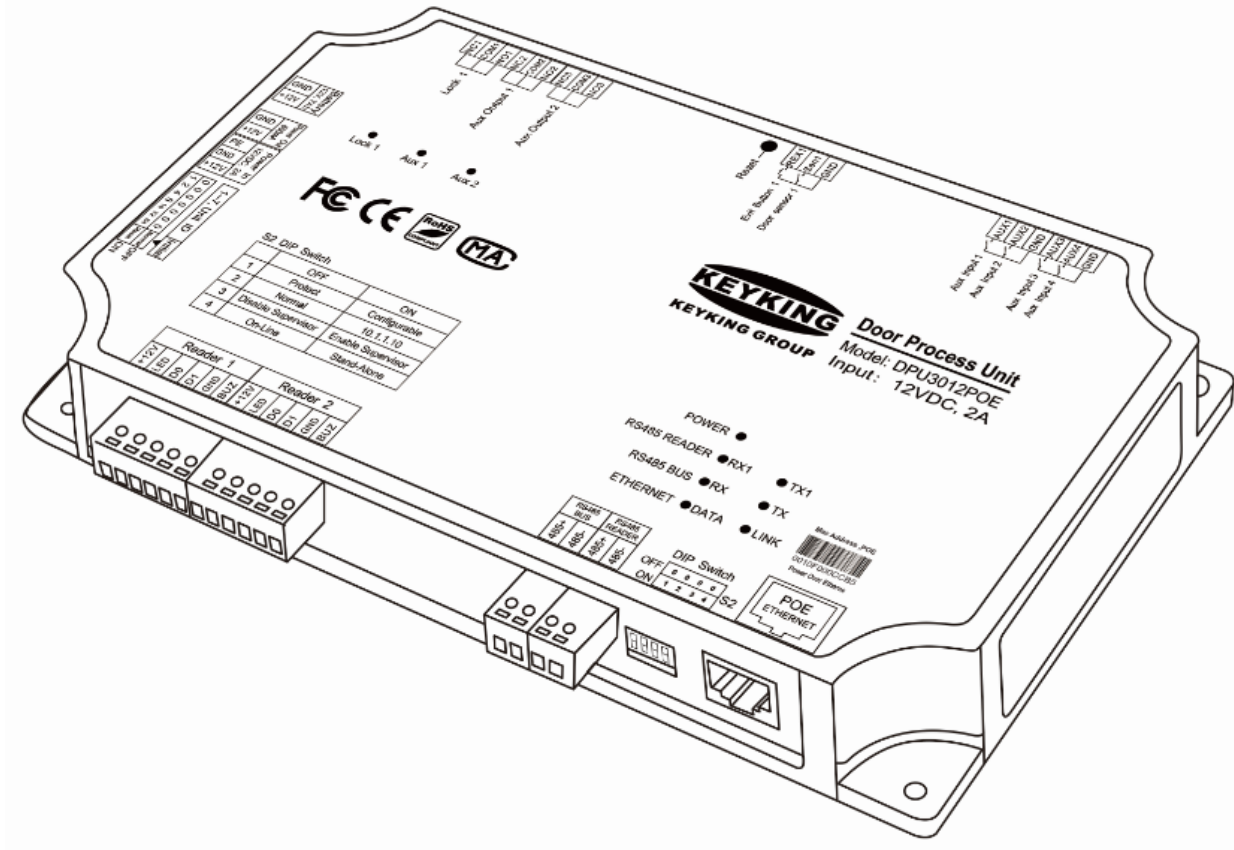| Model		DPU3012POE	DPU3022POE	DPU3024POE	DPU3044POE	DPU3048POE
Doors		1 (double)	2 (single)	2（double）	4（single）	4（double）
Reader Sockets	**Wiegand**	2	2	4	4	4
	RS485	2	2	4	4	8
Aux-Input		4	4	4	4	4
Aux-Output		2	2	2	2	2

2.1 DPU3012POE
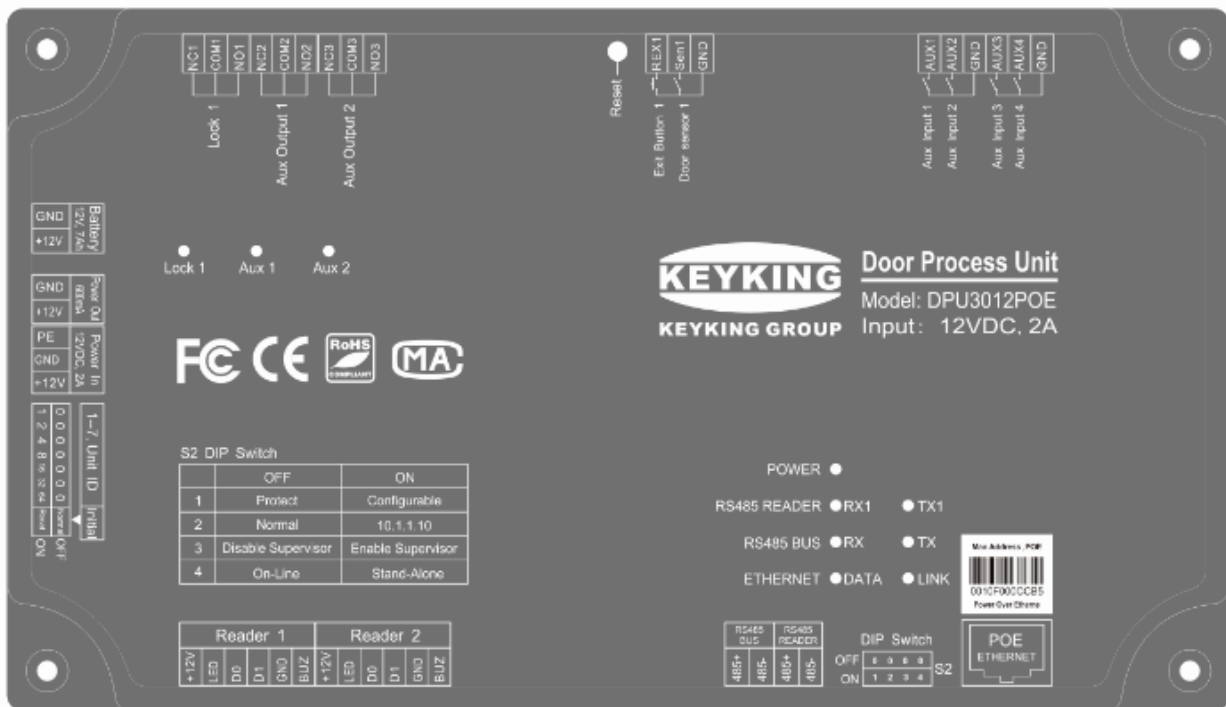

Figure 2-1-1 DPU3012POE controller

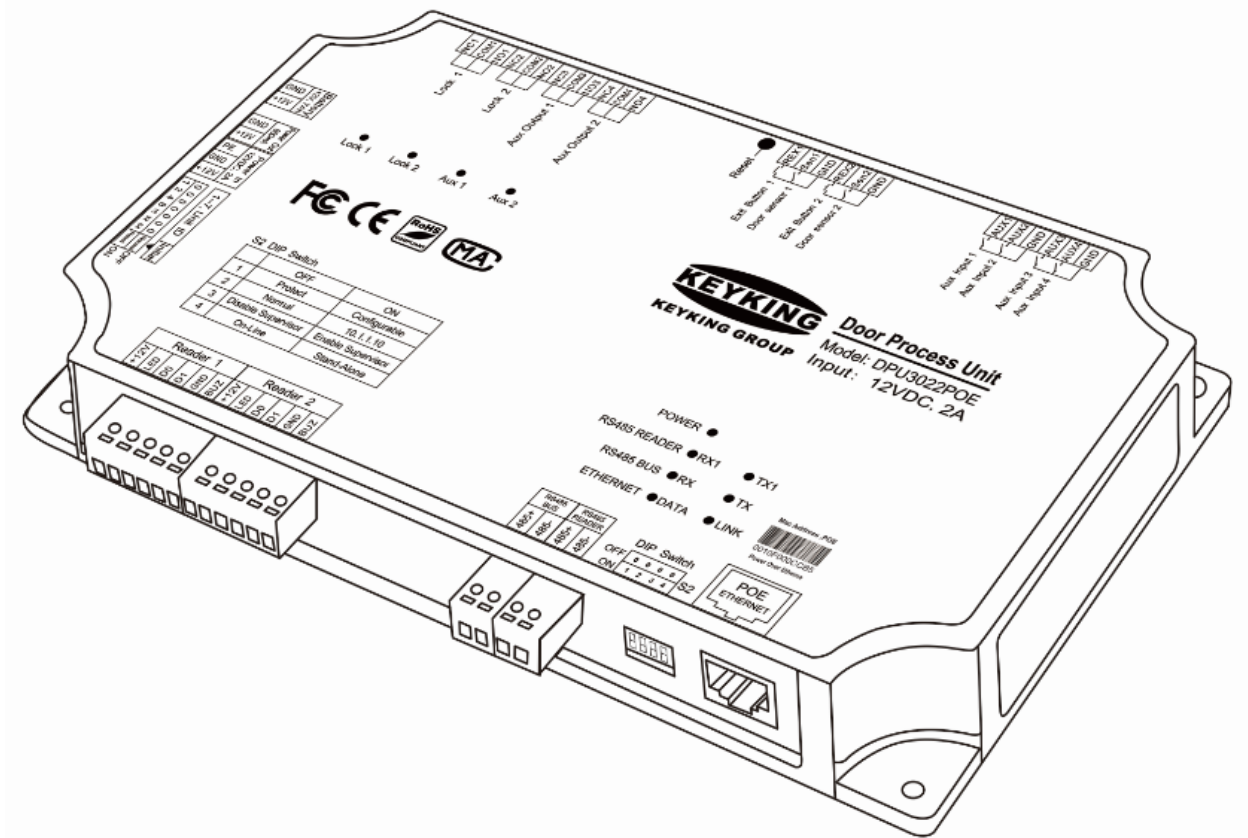Figure 2-1-2 DPU3012POE wiring Schematic diagram

2.2 DPU3022POE

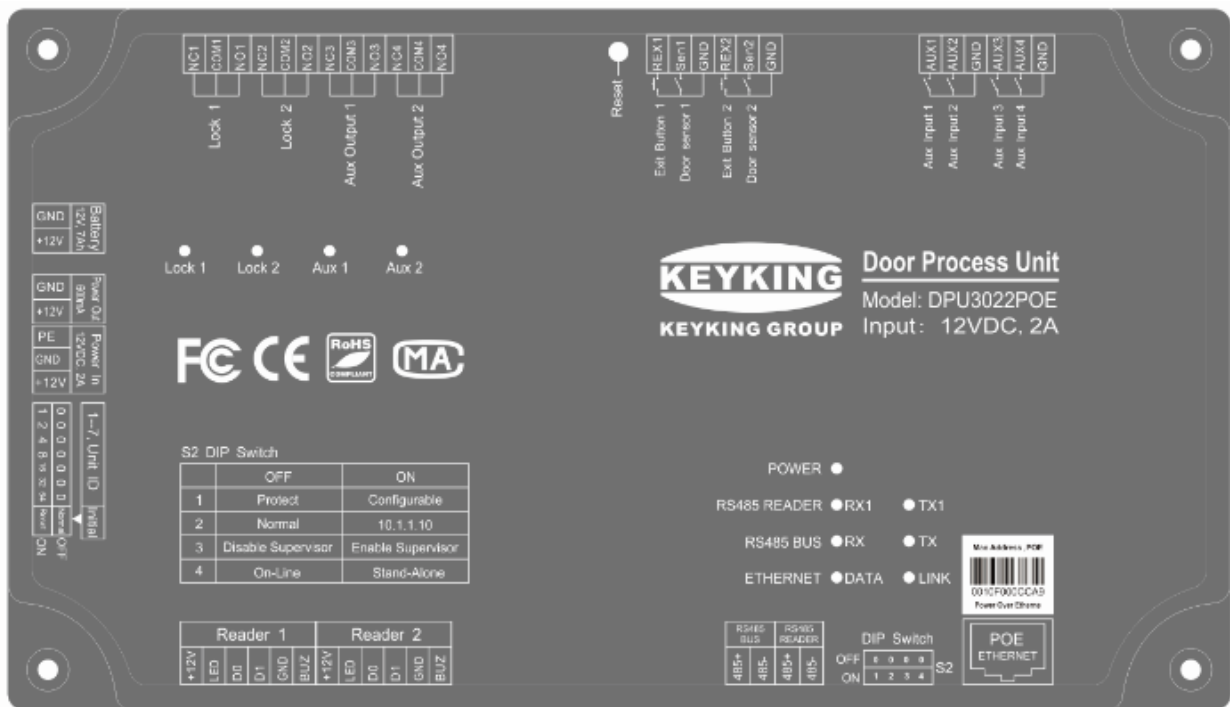
Figure 2-2-1 DPU3022POE controller

Figure 2-2-2 DPU3022POE wiring Schematic diagram
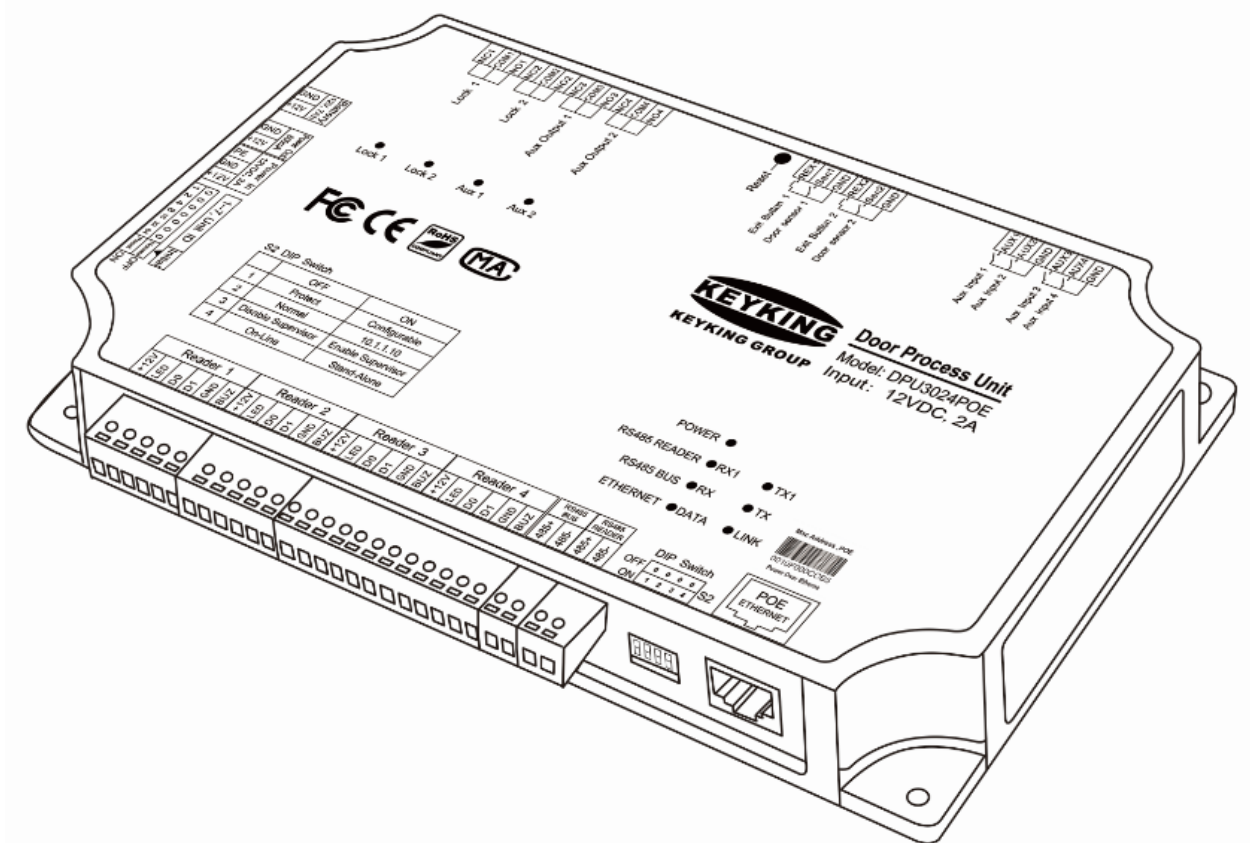
2.3 DPU3024POE

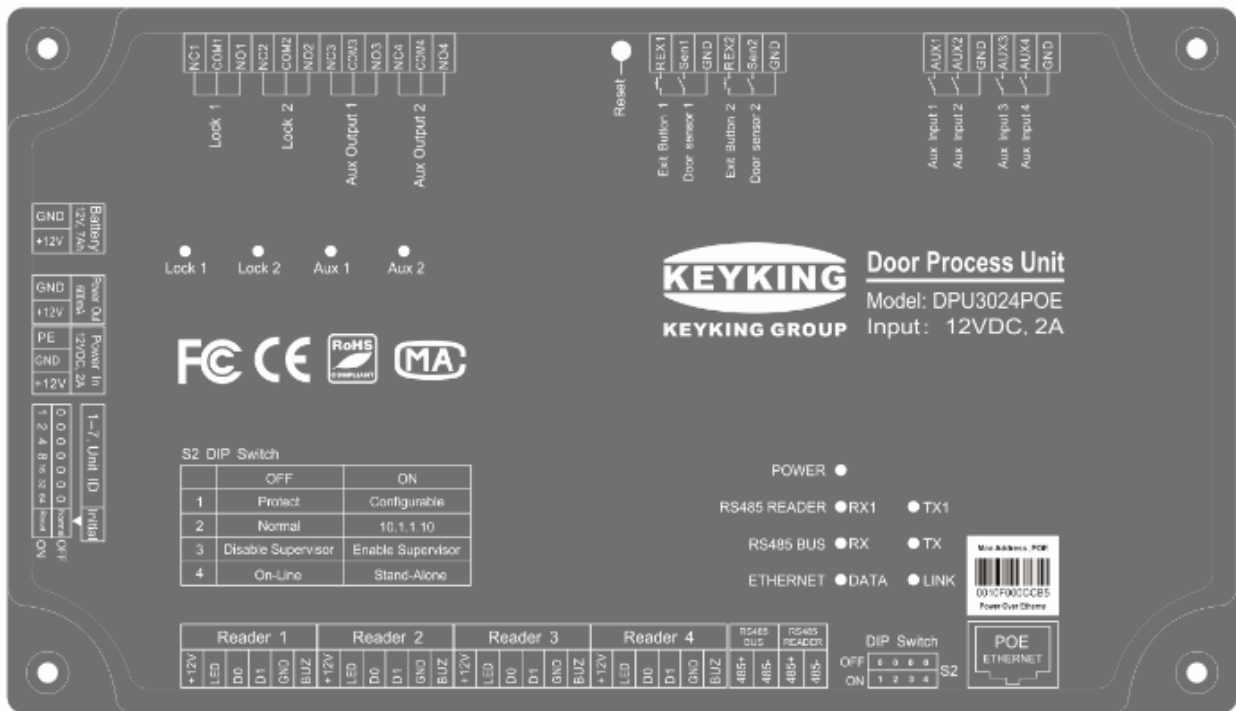Figure 2-3-1 DPU3024POE controller

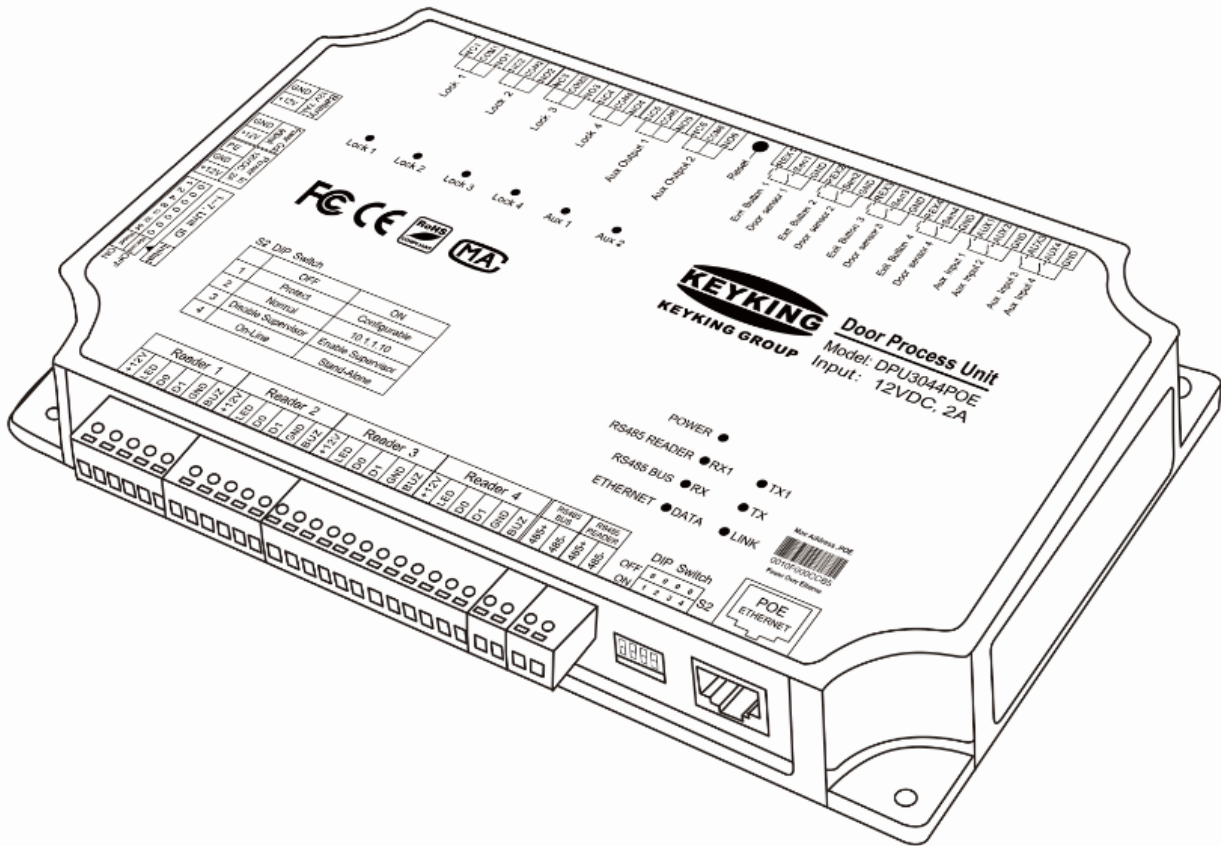Figure 2-3-2 DPU3024POE wiring Schematic diagram

2.4 DPU3044POE
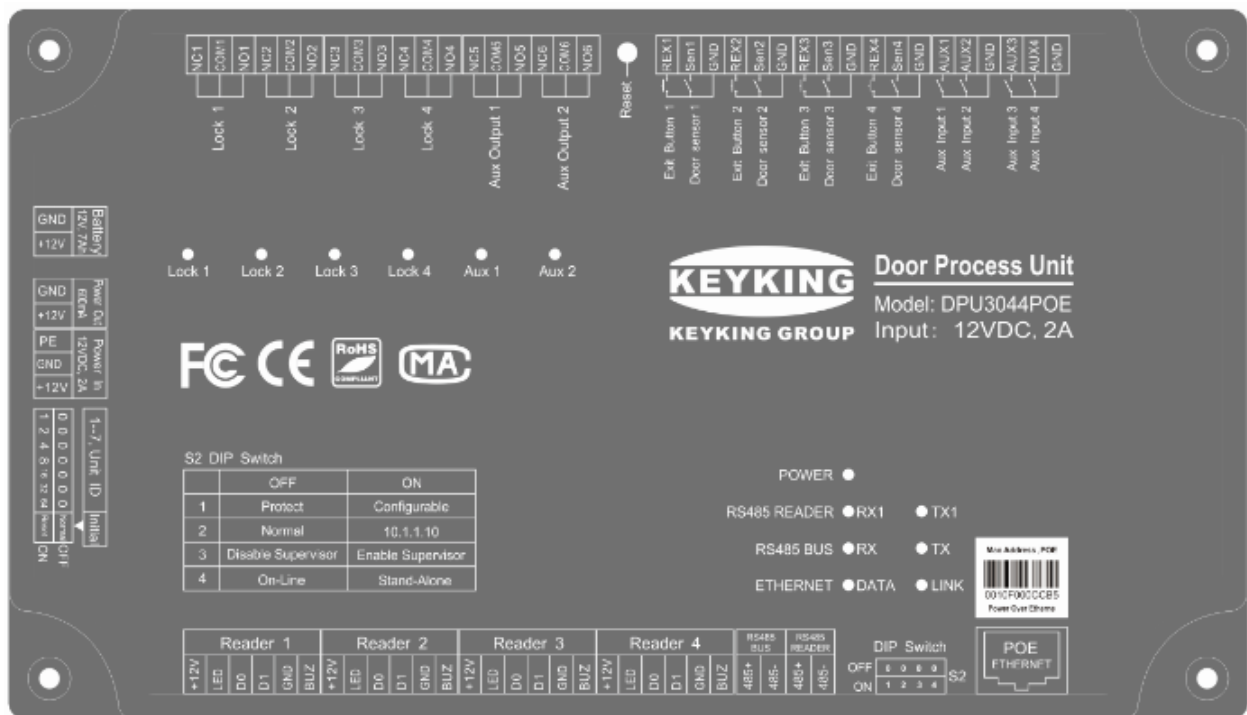

Figure 2-4-1 DPU3044POE controller

Figure 2-4-2 DPU3044POE wiring Schematic diagram
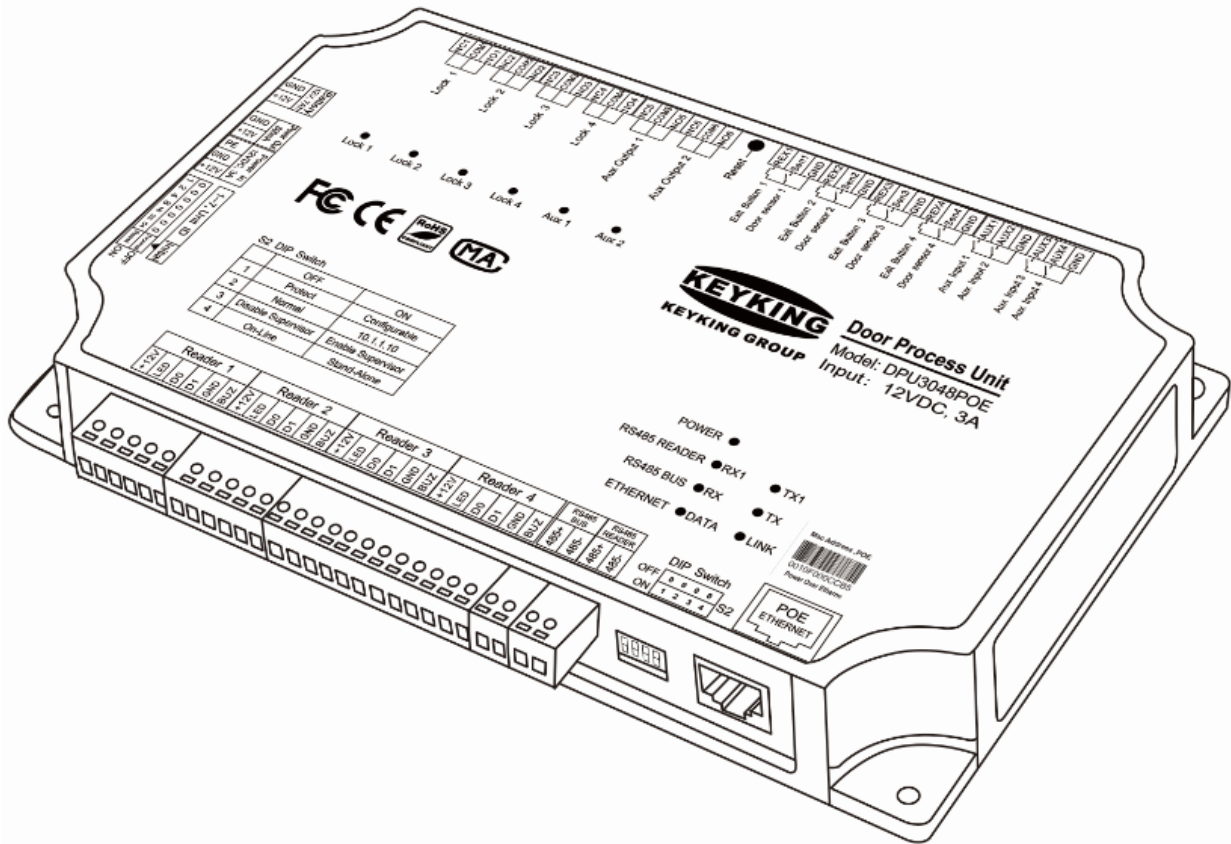
2.5 DPU3048POE

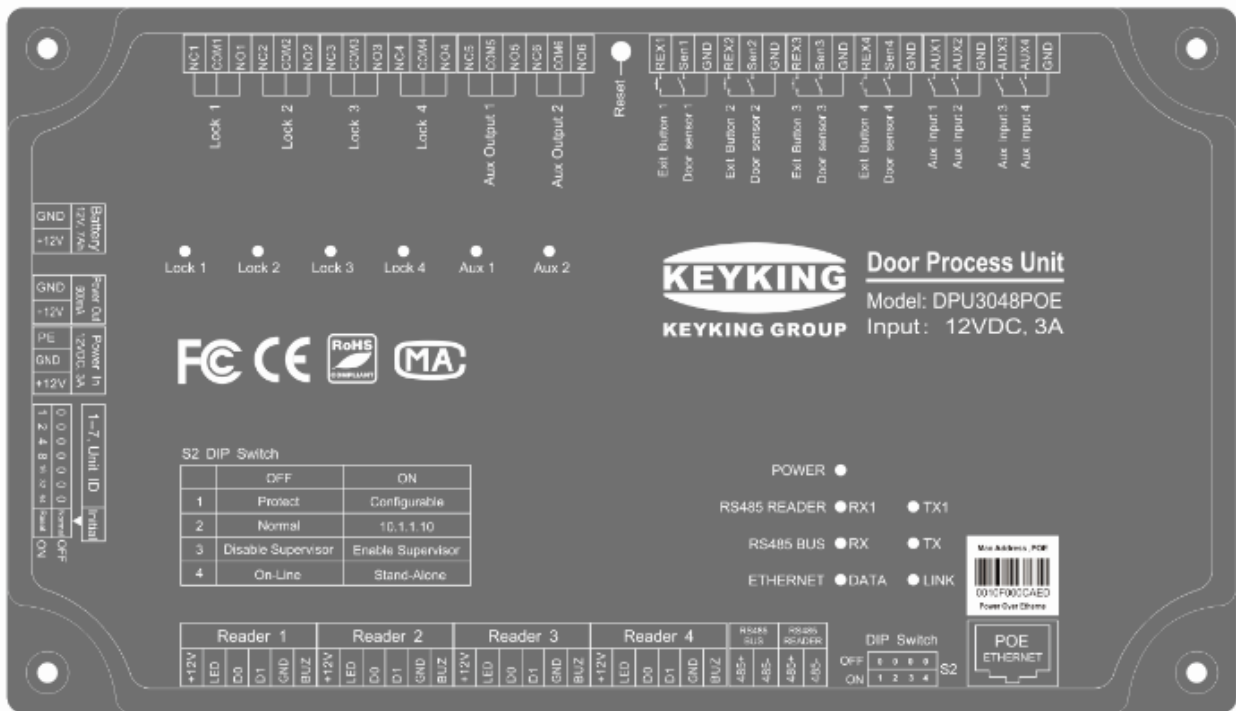Figure 2-5-1 DPU3048POE controller

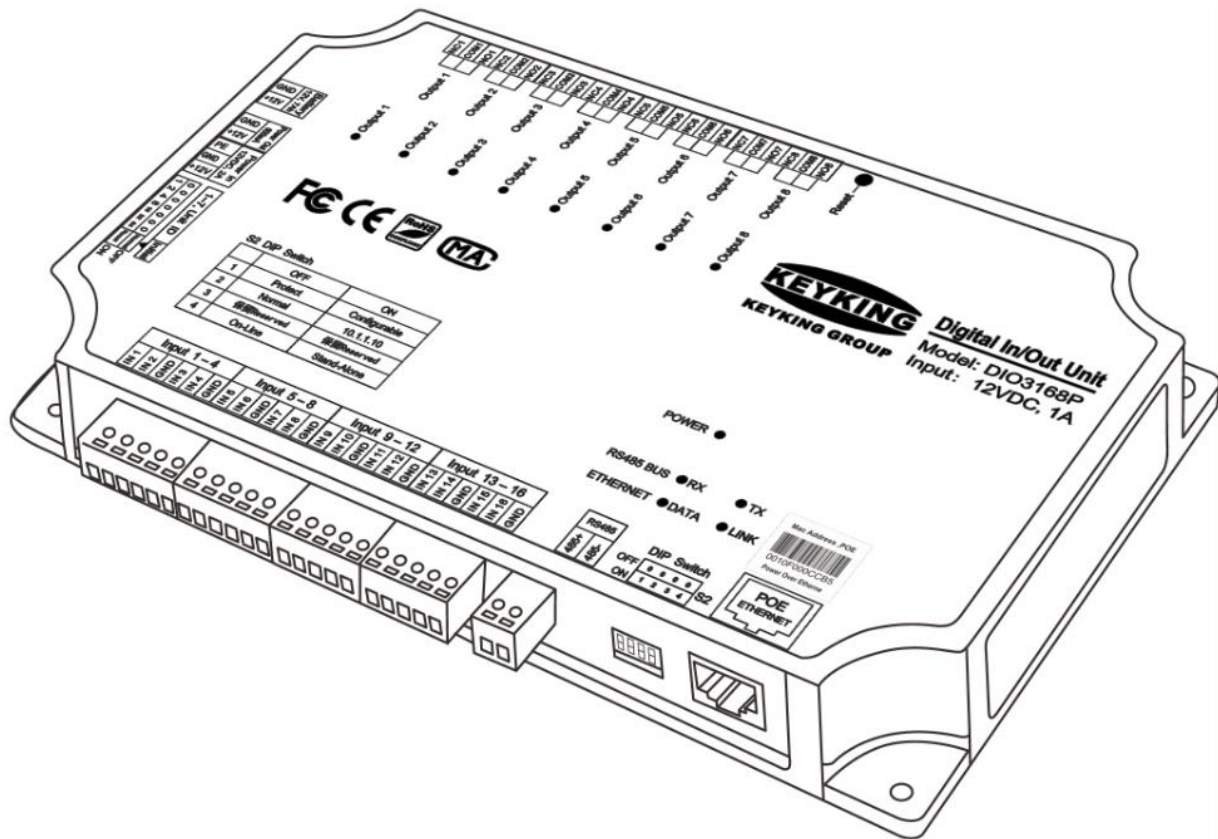Figure 2-5-2 DPU3088POE wiring Schematic diagram

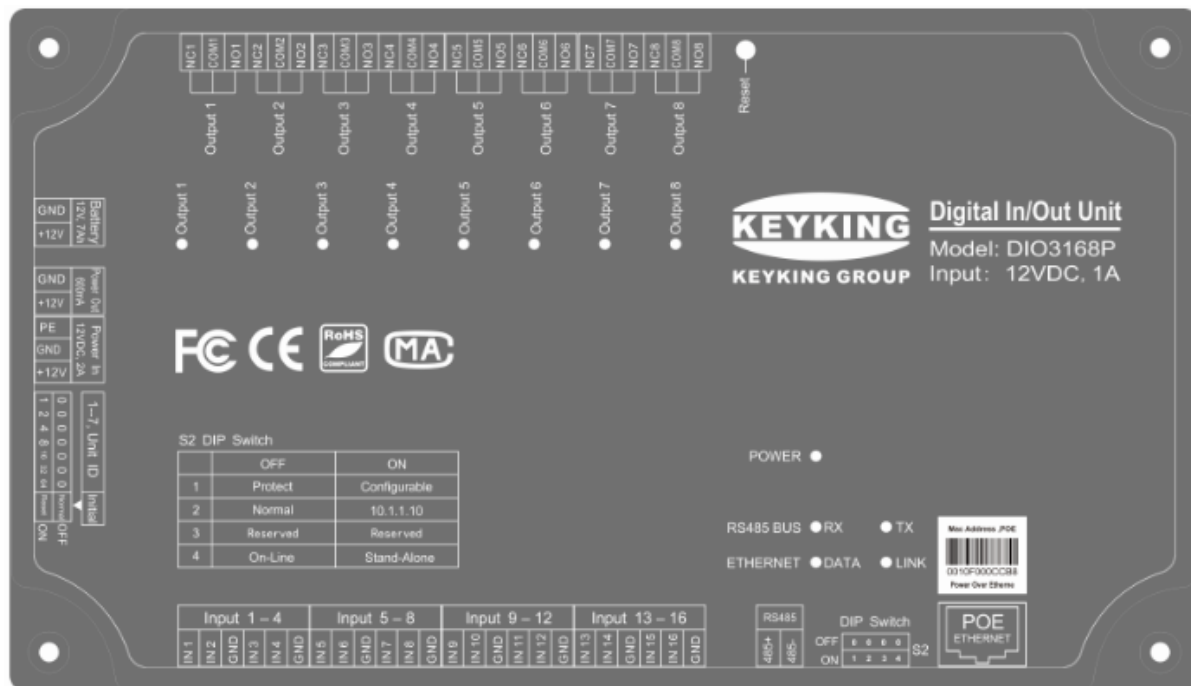## 2.6 DIO3168P

Figure 2-6-1 DIO3168P controller

Figure 2-6-2 DIO3168P wiring Schematic diagram

Chapter 3　System Operation

3.1　Controller ID Setting

Disconnect the power supply before setting the address, then set the DIP switch 1-7 bit to the appropriate location, the address number cannot be repeated, otherwise it will cause 485 network communication failure.

Clear the memory RAM of the controller (if necessary). If you want to remove the RAM memory in the controller, set the SW 8 of the DIP switch to ON, By pressing the Reset button when power is on, the data in the controller RAM will be cleared.

Notes: Eliminate system RAM will completely erase all information in the DPU3000 controller and cannot be recovered.

3.2　Controller IP Configuration

Set DIP1 of SW2 to the ON position so that the IP and network parameters of the controller are configurable.

3.3　Security Check

● To ensure safety, please make sure that the ground terminal in the control box has been connected to the equipment GND of the building before the first power is delivered

● Make sure that all cables are securely connected and that they are energized.

● Cut off the power supply if the wire needs to be reconnect to avoid charging plug.

3.4　Controller Light Condition

➢ **The Power Indicator：**

The power indicator light is yellow (normally flashing every second).

➢ **TCP/IP Communication Indicator：**

LINK lights are always on, DATA lights flashing fast after communication is normal.

➢ **RS485 Communication Indicator：**

RX： Data receive indicator, red (as received data will flash fast).

TX：The data sending indicator, green (if data is being sent out, LED will flash fast).

3.5 Buzzer & LED Instructions

In order to distinguish different events. the reader will make some specific responses in daily operation,. The following table shows the response of the reader's LED indicator and buzzer to different events

Event	Parameters	LED	Buzzer	Frequency
Invalid card	NULL	Flash 3 times	Di Di Di	2.5HZ
Invalid date or time	NULL	Flash 3 times	Di Di Di	2.5HZ
Door open unnormal	☑Door Forced Open	Follow Buzzer	Di Di	1HZ
	☐ Door Forced Open	NONE	NONE	1HZ
DOTL	☑Door Opened too Long	Follow Buzzer	Di Di Di	2HZ
	☐Door Opened too Long	Normal	NONE	
Door closed	NULL	Back to Normal	Back to Normal	
Valid Card	☑Valid Card	Follow Relay	Diiiii(1s)	1HZ
	☐Valid Card	Follow Relay	Di	