KEYKING DPU3000POE Serires System configure



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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:



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 1-1-3

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.

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

DPU3000POE Order Information:

2.1 DPU3012POE



Figure 2-1-1 DPU3012POE controller

Lock 1 Control Nux Output 1 Control Nux Output 2 Nucs Nucs Nucs Nucs	Rasent -
	Door Process Unit Model: DPU3012POE Input: 12VDC, 2A
S2 DIP Switch S2 DIP Switch S2 DIP Switch S2 DIP Switch S2 DIP Switch Configurable 2 Normal 10.1.110 3 Disable Supervisor 4 On-Line Stand-Alone Reader 1 Reader 2 1 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	POWER ● RS485 READER ●RX1 ●TX1 RS485 BUS ●RX ●TX ETHERNET ●DATA ●LINK RS485 READER ETHERNET ●DATA ●LINK RS485 READER DIP Switch QUE SWITCH Q

Figure 2-1-2 DPU3012POE wiring Schematic diagram

2.2 DPU3022POE



Figure 2-2-1 DPU3022POE controller

Lock 1 Control Lock 1 Control Lock 1 Control Lock 2 Control Lock 2 Control Lock 2 Control Cont	Edi Buttor 1 Edi Buttor 1 Door serence 1 Banch Buttor 2 Aux Input 1 Aux Input 1 Aux Input 3 Aux Input 4 Aux Inpu
	KEYKING GROUP Door Process Unit Model: DPU3022POE Input: 12VDC, 2A
S2 DIP Switch S2 DIP Switch S3 DIP S4 DIP S4 DIP S52 DIP Switch OFF ON 1 Protect Configurable 2 Normal 10.1.1.10 3 Disable Supervisor 4 On-Line Stand-Alone	POWER O RS485 READER ORX1 OTX1 RS485 BUS ORX OTX ETHERNET ODATA OLINK UNASSISS FOR Conference of the set of th
Reader 1 Reader 2 V	

Figure 2-2-2 DPU3022POE wiring Schematic diagram

2.3 DPU3024POE



Figure 2-3-1 DPU3024POE controller

\bullet	Lock 1 Cont Lock 2 Cont Lock 2 Cont NC2 NC2 NC2 NC2 NC2 NC2 NC2 NC2	Reset -
Battery Power QL Power QL Power In GND 22.7 /M effect 4200 CL 24 GN122 FIL 9 600 CL 24 200 CL 24 GN122 FIL 9 600 CL 24		Door Process Unit Model: DPU3024POE Input: 12VDC, 2A
1-7, Unit ID Initial 0.0.0.0.0.0 0.000 1.2.4 8 % 30 % level over	S2 DIP Switch OFF ON Protect Configurable ON Science Configurable On-Une Stand-Alone	POWER O RS485 READER ORX1 OTX1 RS485 BUS ORX OTX ETHERNET ODATA OLINK
\bigcirc	Reader 1 Reader 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 3 3	OUTPOSICIES Reader 4 READER INSERT DIP Switch Big Big

Figure 2-3-2 DPU3024POE wiring Schematic diagram

2.4 DPU3044POE



Figure 2-4-2 DPU3044POE wiring Schematic diagram

2.5 DPU3048POE



Figure 2-5-1 DPU3048POE controller

	Lock 1 COM NOT Lock 2 NOT NOT Lock 3 COM Lock 4 COM	Aux Oulgut 1 Cons Aux Oulgut 2 Cons Aux Oulgut 2 Cons Bat Burton 1 Cons Exit Burton 1 Cons Exit Burton 1 Cons Exit Burton 2 Cons Exit Burton 2 Cons Exit Burton 1 Cons Exit Burton 2 Cons Exit Burton 1 Cons Exit Burton 2 Cons Aux Input 3 Cons Aux Input	
Battery Base 0 Power 1 127, 744 3004 12,000 34 D 12 30,012 2,000 34		Aux 1 Aux 2 KEYKING GROUP KEYKING GROUP Input: 12VDC, 3A	
1-7. Unit ID Initial 0.00000000000000000000000000000000000	S2 DIP Switch DFF ON 1 Protect Configurable 2 Normal 10.1.1.10 3 Disable Supervisor Enable Supervisor 4 On-Line Stand-Alone	POWER • RS485 READER •RX1 •TX1 RS485 BUS •RX •TX ETHERNET •DATA •LINK	
	Reader 1 Reader 2 21 21 21 21 21 21 21 21 21 21 21 21 21 21	Reader 3 Reader 4 Network and a state of the state of th	\int

Figure 2-5-2 DPU3088POE wiring Schematic diagram

2.6 DIO3168P



Figure 2-6-1 DIO3168P controller

•	Output 1 00M	Output 2 NG2 NO2 NG2	Output 3 Comp	Output 5 0015	Output 6 COM6	Output 7 CON7 NO7 NC8	Output 8 COM8	Raset	
GND 12V, 7A) +12V	 Output 1 	 Output 2 	 Output 3 Output 4 	 Output 5 	 Output 6 	Output 7	 Output 8 	KEYKING	Digital In/Out Unit Model: DIO3168P
Store Col Prover In Store 12/00, 2A 9122 E B B 12 B B 12	F©	CE		A				KEYKING GROUP	Input: 12VDC, 1A
17, Unit ID rets 0 0 0 0 0 0 19 mm 1 2 4 8 16 12 01 mm	S2 DIP 5	Switch OFF Protect Normal	ON Configure 10.1.1.1	ible IO				POWER O	_
Off.		Reserved On-Line	Reserve Stand-Al	d one				RS485 BUS ●RX ●TX ETHERNET ●DATA ●LIN	K CO 10F000CC68 Four Over Eterno
			Input 5 - 8		9 - 12 11 21 00 00 11 21 00 00	Input 13 - 1 2 1 0 2 2 2 2 0 2 3	16 2 00	RS185 DIP Switch 0FF 0 0 0 0N 1 2 2 4	

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

Reader Parameters					
LED Control	Low Level 🔹				
Buzzer Control	Low Level 🔹				
Buzer Alarm	 ✓ Door Opened Too Lor ✓ Door Forced Open ✓ Valid Card 				
Reading Delay(S)	0				
Keypad Delay(S)	5				

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 uppermel	☑Door Forced Open	Follow Buzzer	Di Di	1HZ
Door open unnormal	Door Forced Open	NONE	NONE	1HZ
DOTI	☑Door Opened too Long	Follow Buzzer	Di Di Di	2HZ
DOIL	Door Opened too Long	Normal	NONE	
Door closed	NULL	Back to Normal	Back to Normal	
Valid Card	☑ Valid Card	Follow Relay	Diiiii(1s)	1HZ
vanu Caru	□Valid Card	Follow Relay	Di	