IDENTIFY DOOR CONTROLLER COMPONENTS

1. Identify the following panel components using the panels in front of you, or the on-screen photo of the X1 Door Controller.

- ‣ Cell Module header
- ‣ PoE Module headers
- ‣ R and L terminals
- ‣ 4-wire connector
- ‣ Operation LEDs
- ‣ Network connection
- ‣ Power terminals
- ‣ In & Out readers
- ‣ Inputs
- ‣ Auxiliary outputs
- ‣ Door relay
- ‣ Wet/Dry jumper

CONNECT A CARD READER

Wiegand

1. Connect the **RED WIRE** (12 V DC) to terminal **R1**
2. Connect the **WHITE WIRE** (Data One) to terminal **W1**
3. Connect the **GREEN WIRE** (Data Zero) to terminal **G1**
4. Connect the **BLACK WIRE** (ground) to terminal **B1**
5. Connect the **ORANGE OR BROWN WIRE** to terminal **LC**

OSDP

1. Connect the **A WIRE** (485 -) to terminal **G1**
2. Connect the **B WIRE** (485 +) to terminal **LC**
3. Connect the **RED WIRE** (DC +) to terminal **R1**
4. Connect the **BLACK WIRE** (DC -) to terminal **B1**

Optional second card reader

1. Connect the **RED WIRE** (12 V DC) to terminal **R2**
2. Connect the **WHITE WIRE** (Data One) to terminal **W2**
3. Connect the **GREEN WIRE** (Data Zero) to terminal **G2**
4. Connect the **BLACK WIRE** (ground) to terminal **B2**
5. Connect the **ORANGE OR BROWN WIRE** to terminal **LC**
6. If using only one reader, it must be connected to reader 1

WIRE THE INPUTS

1. Connect a **DOOR CONTACT** or **DOOR POSITION SWITCH** to terminal **DS**
2. Connect a **MOTION SENSING DEVICE** or a **MECHANICAL SWITCH** to terminal **RX**
3. Connect an **INPUT** that triggers a **RULE** programmed in Virtual Keypad
4. Connect the **GROUND** to terminal **G**

WIRE THE ONBOARD OUTPUTS

1. Connect the **NEGATIVE WIRE** of the device to terminal **O1 & O2**
2. Connect the **POSITIVE WIRE** of the device to terminal **12V**

CONNECT THE DIODE

1. Connect the **INCLUDED DIODE** as close to the **MAGNETIC LOCK** or **DOOR STRIKE** as possible to prevent inductive kickback

PLACE THE WET/DRY JUMPER

1. Put the **JUMPER** on the **TOP TWO TERMINALS** for **DRY** condition
2. Put the **JUMPER** on the **BOTTOM TWO TERMINALS** for **WET** condition

WIRE THE ELECTRONIC LOCK

Magnetic Lock - Normally Closed and Dry

1. Set **JUMPER** to **DRY**
2. Connect **MAGNETIC LOCK POSITIVE** to terminal **NC**
3. Connect **MAGNETIC LOCK NEGATIVE** to **POWER SUPPLY NEGATIVE**
4. Connect **POWER SUPPLY POSITIVE** to terminal **C**

Magnetic Lock - Normally Closed and Wet

1. Set **JUMPER** to **WET**
2. Connect **MAGNETIC LOCK POSITIVE** to terminal **NC**
3. Connect **MAGNETIC LOCK NEGATIVE** to X1 terminal **B2**

Door Strike - Normally Open and Dry

1. Set **JUMPER** to **DRY**
2. Connect **DOOR STRIKE POSITIVE** to terminal **NO**
3. Connect **DOOR STRIKE NEGATIVE** to **POWER SUPPLY NEGATIVE**
4. Connect **POWER SUPPLY POSITIVE** to terminal **C**

Door Strike - Normally Open and Wet

1. Set **JUMPER** to **WET**
2. Connect **DOOR STRIKE POSITIVE** to terminal **NO**
3. Connect **DOOR STRIKE NEGATIVE** to X1 terminal **B2**

CONNECT COMMUNICATION

Ethernet

1. Connect **ETHERNET CABLE** from the LAN/WAN connection to the X1 PCB **ETHERNET PORT**

Cellular

1. Plug in the included **STANDOFF** into the **DOOR CONTROLLER BOARD**
2. Carefully insert the **ANTENNA CONNECTOR** through the **TOP OF THE ENCLOSURE**
3. Plug the **CELL MODULE** onto the **STANDOFF**
4. Plug the **CELL MODULE** into the **CELL HEADER**
5. Screw on the **CELL MODULE ANTENNA** to the **ANTENNA CONNECTOR** with the washer on the outside of the enclosure

Wi-Fi

1. Connect the **WI-FI ANTENNA CABLE** to the **WI-FI MODULE**

   ‣ You can connect via an Ethernet or a Wi-Fi connection, but not both at the same time

IDENTIFY OUTPUT MODULE COMPONENTS

1. Identify the following panel components using the panels in front of you, or the on-screen photo of the X1 Output Module.

   ‣ Address Rotary   ‣ Top & Bottom   ‣ Output relays
   ‣ Power LEDs   4-wire connectors   ‣ Output relay LEDs

CONNECT OUTPUT MODULE

1. Address the **ROTARY DIAL** from 1-9

   ‣ Factory default is 1, additional modules need to be address in sequence

2. Connect the **4-POSITION HARNESS** to the **TOP CONNECTOR** on the output module and the 4-wire connector on the **DOOR CONTROLLER MODULE**

3. Add additional output modules by connecting the **4-POSITION HARNESS** to the **TOP CONNECTOR** on the second output module to the **BOTTOM CONNECTOR** on the first output module

4. To wire for output control, use the 10 terminals on the output module

   ‣ To wire **NORMALLY OPEN**, connect the wires to **NO AND 1**

   ‣ To wire **NORMALLY CLOSED**, connect the wires to **NC AND 1**

POWER UP THE CONTROLLER

Input Power

1. Connect **TRANSFORMER WIRES** to terminals **1 & 2**

   ‣ 12 V - 24 V AC/DC 2 A
   ‣ Use no more than 70ft of 16 gauge or 40ft of 18 gauge wire between the transformer and the X1 PCB

Battery

1. Connect the **RED BATTERY LEAD** to the **POSITIVE BATTERY TERMINAL**

2. Connect the **BLACK BATTERY LEAD** to the **NEGATIVE BATTERY TERMINAL**

   ‣ 1.5 Ah (recommended), 9 Ah (max)

CONFIGURE WI-FI SETTINGS

1. Connect to the **X1'S SSID**

   ‣ If using a phone, use only Wi-Fi and disable mobile data

2. Enter **192.168.1.1** in the URL field

3. In the **WI-FI** options, enter the customer's Wi-Fi network information

4. Select **APPLY**, and the X1 will reset

   ‣ Once the X1 has reset, it will automatically connect to the customer's network

CONFIGURE NETWORK SETTINGS

1. Connect to the **X1'S SSID**

   ‣ If using a phone, use only Wi-Fi and disable mobile data

2. Enter **192.168.1.1** in the URL field

3. In the **DHCP** option, make edits to the desired fields

   ‣ DHCP,: This option is turned on by default
   ‣ Static IP: Turn off DHCP and enter the information in the required fields

4. Select **APPLY**, and the X1 will reset

   ‣ Once the X1 has reset, it will automatically connect to the customer's network

PROGRAM IN DEALER ADMIN

Sign in to dealer admin

1. Go to the Dealer Admin login page. Enter your **EMAIL** and **PASSWORD**, then press **SIGN IN**

Add a Customer

1. At **CUSTOMERS**, select the **PLUS** icon

2. Enter the customer's **NAME** and **EMAIL**

3. Enter the customer's **CONTACT INFORMATION** if desired

4. Press **SAVE**

Add X1 Door Controller to a Customer

1. Go to **CUSTOMERS**

2. Select a customer to open the **CUSTOMER SUMMARY**

3. In **SYSTEMS**, select the **PLUS** icon

4. Enter a **NAME** for the door controller

5. In **SYSTEM TYPE**, select **X1**

6. Configure billing address and time options as needed

7. Enter the door controller's **SERIAL NUMBER**

8. Press **SAVE**

Program X1 Door Controller

1. Enter a descriptive **NAME** for the door

2. In **STRIKE TIME**, enter the number of seconds that you want the door to unlock when access is granted

3. In **STRIKE DELAY**, enter the number of minutes that you want to delay the door unlock when access is granted

4. In **READER PROTOCOL**, choose a protocol for this door's readers: **WIEGAND** or **OSDP**

   ‣ For OSDP readers, configure buzzer and LED options

5. In **AUTHORIZATION**, choose which authorization type can be used to access any of the doors

6. Turn on additional options as needed

7. Press **SAVE**

Add Card Formats

1. In **CARD FORMATS**, select the **PLUS** icon

2. Give the card format a **NAME**

3. Select a card format and configure **FORMAT SETTINGS**

4. Press **SAVE**

Add X1 Output Module

1. Go to **SYSTEM INFORMATION**
2. Under **OUTPUTS**, select the **PLUS** icon
3. Select the X1 that the output module is connected to
4. For **OUTPUT NAME**, use a descriptive **NAME** for the output expansion module's location
5. For each **RELAY**, name each output that you intend to use
   ‣ Unnamed outputs will not be programmed
6. Press **SAVE**

Enable Video Services

1. In **VIDEO SERVICES**, select the **PLUS** icon
2. Select the types of cameras or NVR's that you want to enable on the door controller
3. Select any third-party applications that you want to enable on the door controller
   ‣ This allows users to sign in to their services from Virtual Keypad
4. Press **SAVE**
5. Back on the **SYSTEM INFORMATION** page, select the number of cameras and storage space you require or choose the number of doorbells that you want to add to the door controller

Add an App User

1. Go to **CUSTOMERS**
2. Select a customer to open the **CUSTOMER SUMMARY**
3. In the **APP USERS** section, select the **PLUS** icon
4. For a user that doesn't have a Virtual Keypad account, select **NEW**
5. For a user that already has an account select **EXISTING**
6. For a new user, enter their **EMAIL ADDRESS**
7. For an existing user, start typing to **SEARCH** for their email and **SELECT** it from the list
8. Set the user's authority level to either **ADMINISTRATOR** to manage multiple door controllers or **STANDARD** to manage a single door controller
9. For a new user, enter their **FIRST** and **LAST NAME**
10. If you don't want to generate a random password for the user, clear **CREATE RANDOM PASSWORD** then manually enter one
11. If you want to email the user video clips, select **EMAIL VIDEO CLIPS**
12. Select systems and permissions for the user
13. Press **SAVE**

Login As Customer

1. Select **LOGIN AS CUSTOMER** to log in to Virtual Keypad
   ‣ This adds you to the door controller as a temporary app user with admin privileges without the capability to view video. Your temporary app user expires and is automatically removed from the door controller after 1 hour.
2. Go to **GROUPS**
3. Select the **PLUS** icon
4. Select the name placeholder and enter a descriptive **NAME** for the group
5. In **DOORS**, add the doors that you want group members to have authority to access
6. In **FLOORS**, add the floors that you want groups members to have authority to access
7. In **ACCESS SCHEDULES**, choose when group members can access the assigned doors
8. Select permissions for group members
9. Select **SAVE**
10. Go to **USERS**
11. Select the user you want to attach the group to
12. Select the group you want the user to have
13. Select **SAVE**

TEST THE DOOR CONTROLLER

1. Make sure the **READER'S LEDS** and the **DOOR CONTROLLER'S POWER LED** is on
2. If connected to Wi-Fi, the **WI-FI LED** is on solid
3. If connected to network, the **NETWORK PORT LIGHT** is blinking
4. If using an output module, **EACH LED** is on when the relay is on and off when the relay is off

QUESTIONS

What else would you like to learn about the X1?

NOTES:

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