XPass 2
설치 가이드
버전 1.02
한국어
KO 101.00.XP2-GKDPB V1.02A
안전을 위한 주의사항

 제품을 올바르게 사용하여 위험이나 재산상의 피해를 미리 막기 위한 내용이므로 반드시 지켜주시기 바랍니다.

⚠ 경고
지시사항을 위반하면 심각한 상해나 사망에 이르을 수 있습니다.

설치 관련

직사 광선, 습기, 먼지나 그활동이 많은 곳에는 설치하지 마십시오.
• 화재 또는 감전의 원인이 됩니다.
전열기 등으로 인해 열이 발생하는 곳에는 설치하지 마십시오.
• 과열로 인한 화재 또는 감전의 원인이 됩니다.
물기가 없는 장소에 설치하십시오.
• 습기로 인한 제품 손상 또는 감전의 원인이 됩니다.
전자파 장해가 없는 곳에 설치하십시오.
• 제품 손상 또는 감전의 원인이 됩니다.

사용자가 임의로 제품을 설치하거나 수리하지 마십시오.
• 화재, 감전, 부상의 원인이 됩니다.
• 사용자의 임의 설치나 수리로 인해 제품이 손상된 경우에는 무상 서비스를 받을 수 없습니다.

사용 관련

 제품 내부에 물, 음료수, 약품 등의 액체가 들어가지 않도록 주의하십시오.
• 감전, 화재, 제품 손상의 원인이 됩니다.

주의
지시사항을 위반하면 경미한 상해나 제품 손상이 발생할 수 있습니다.

설치 관련

전원 케이블 등을 통행 장소에 방치하지 마십시오.
• 제품 파손 또는 신체 상해의 원인이 됩니다.
저서, TV, (특히 CRT) 모니터, 스피커 등 자성이 강한 물체 주변에 설치하지 마십시오.
• 제품 고장의 원인이 됩니다.
여러 대의 장치를 설치할 때 최소 거리를 유지하여 설치하십시오.
• 그렇지 않으면 다른 장치의 RF 성능에 영향을 주어 장치가 오작동할 수 있습니다.

사용 관련

 제품을 떨어뜨리거나 충격을 주지 마십시오.
• 제품 고장의 원인이 됩니다.
제품 소리 물, 벤젠, 알코올 등이 아닌 부드러운 마른 천으로 닦아 주십시오.
• 제품 고장의 원인이 됩니다.
시작하기
구성품

• 구성품은 설치 환경에 따라 달라질 수 있습니다.
### 명칭 및 기능

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설치

브래킷 및 제품 고정

1. 제공된 드릴링 템플릿을 이용하여 브래킷을 장착할 위치를 정하십시오. XPass 2를 장착할 위치에 고정용 나사를 이용하여 브래킷을 단단히 고정하십시오.

알아두기

- XPass 2를 콘크리트 벽에 설치할 경우 드릴로 구멍을 뚫어 PVC 앵커를 끼운 뒤 고정용 나사로 고정하십시오.
- RF 신호 간섭을 피하기 위해 최소 이격 거리를 확인하여 설치하십시오.

벽 두께 | 거리
---|---
100 mm | 400 mm
120 mm | 380 mm
150 mm | 380 mm
2. 고정된 브래킷 위에 XPass 2를 장착하십시오.

3. 제품 고정용 나사를 돌려 XPass 2와 브래킷을 조립하십시오.

알아두기
- 브래킷과 제품을 조립할 때 향상된 보안을 위해 제품 고정용 나사 대신 동봉된 브래킷 고정용 나사(별 모양)를 이용할 수 있습니다.
설치

전원 연결

• 전원 어댑터는 DC 12V(± 10%), 최소 1,000mA 이상 또는 DC 24V(± 10%), 최소 500mA 이상으로 IEC/EN 60950-1 승인을 받은 제품을 사용하십시오. 전원 어댑터에 다른 기기를 연결하여 사용하려면 당말기의 소모 전력과 다른 기기에 필요한 소모 전력을 합한 전류 용량 이상의 어댑터를 사용해야 합니다.
• Secure I/O 2, 전기정(전기식 잠금장치), 제품은 반드시 개별 전원을 사용하십시오. 전원을 함께 연결하여 사용하면 장치가 오작동할 수 있습니다.

네트워크 연결

TCP/IP

LAN 연결(허브와 연결)
일반 타입의 CAT-5e 케이블을 사용하여 허브와 연결할 수 있습니다.
설치

LAN 연결(PC와 직접 연결)
XPass 2는 자동 MDI/MDIX 기능을 가지고 있으므로 크로스 케이블이 아닌 일반 터널의 CAT-5e 케이블로 PC와 직접 연결할 수 있습니다.

TTL 입력 연결

- 6 - TTL GND: 회색
- 7 - TTL IN1: 갈색
- 8 - TTL IN0: 보라색
설치

릴레이 연결

Fail Safe Lock
Fail Safe Lock을 사용하려면 아래 그림과 같이 N/C 릴레이를 연결하십시오. Fail Safe Lock은 평상시 릴레이 회로에 전류가 흐르며, 릴레이가 동작하여 전류를 일시적으로 차단하면 출입문이 열립니다. 정전이 되거나 외부 요인으로 장치의 전원이 끊길 경우 출입문이 열립니다.

Fail Secure Lock
Fail Secure Lock을 사용하려면 아래 그림과 같이 N/O 릴레이를 연결하십시오. Fail Secure Lock은 평상시 릴레이 회로에 전류가 흐르지 않으며, 릴레이가 동작하여 전류가 흐르면 출입문이 열립니다. 정전이 되거나 외부 요인으로 장치의 전원이 끊길 경우 출입문이 잠깁니다.

알아두기
• 출입문 잠금 장치가 작동할 때 발생하는 역전류로부터 릴레이를 보호하기 위해 그림과 같이 출입문 잠금 장치 배선 양쪽에 다이오드를 설치하십시오.
• 다이오드의 설치 방향에 주의하십시오. 다이오드는 출입문 잠금 장치와 가깝게 설치하십시오.
• XPass 2와 출입문 잠금 장치는 별도의 전원을 사용하십시오.

알아두기
• 출입문 잠금 장치가 작동할 때 발생하는 역전류로부터 릴레이를 보호하기 위해 그림과 같이 출입문 잠금 장치 배선 양쪽에 다이오드를 설치하십시오.
• 다이오드의 설치 방향에 주의하십시오. 다이오드는 출입문 잠금 장치와 가깝게 설치하십시오.
• XPass 2와 출입문 잠금 장치는 별도의 전원을 사용하십시오.
자동문 연결

출입문 잠금 장치

전자문 제어 장치

감지 센서

퇴실 버튼

5 - RLY NO
4 - RLY COM

5
4

XPass 2

5 - RLY NO 회색 (흰띠)
4 - RLY COM 초록색 (흰띠)
독립형 연결

별도의 I/O 장치를 연결하지 않고 XPass 2를 직접 출입문 점금 장치, 출입문 스위치, 출입문 센서 등에 연결할 수 있습니다.

알아두기

- RS-485 케이블로 슬레이브 장치를 연결하여 XPass 2를 다중 출입문 게이어 장치로 사용할 수 있습니다. 슬레이브 장치는 더미 리더로 사용되며 인증은 마스터 장치에서 수행합니다.
- XPass 2를 마스터 장치로 사용할 경우 슬레이브 장치에서 카드 인증만 사용할 수 있습니다.
- 최대 31대의 슬레이브 장치를 연결할 수 있습니다.
- 더 자세한 내용은 슈프리마 기술 지원팀(CS@suprema.co.kr)에 문의하십시오.
Secure I/O 2 연결

XPass 2에 I/O 장치인 Secure I/O 2를 RS-485로 연결할 수 있습니다. XPass 2와 Secure I/O 2의 연결이 끊기거나 외부 요인에 의해 XPass 2의 전원이 차단되더라도 보안을 유지할 수 있습니다.

- RS-485 케이블은 AWG24, 꼬임선(Twisted Pair), 길이 1.2 km 이하로 사용하십시오.
- RS-485 케이블은 꼬임선(Twisted Pair)으로 사용하는 것이 좋습니다.

전원 연결
1 - PWR GND 검은색 (흰띠)
2 - PWR +VDC 빨간색

- DC 전원
  1 - PWR GND 검은색 (흰띠)
  2 - PWR +VDC 빨간색

+ DC 전원

PC

Secure I/O 2 연결
22 - 485 TRXP 파란색 (흰띠)
21 - 485 TRXN 노란색 (검은띠)
20 - 485 GND 흰색 (검은띠)

XPass 2 및 Secure I/O 2 연결 섹션

PC 케이블 연결

DC 전원 연결

Seculre I/O 2 및 XPass 2 연결

전원 연결
1 - PWR GND 검은색 (흰띠)
2 - PWR +VDC 빨간색
설치

Wiegand 연결

Wiegand 입력/출력 장치로 사용

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<td>WG D0</td>
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RFID 리더/제어 장치

XPass 2
네트워크 설정 초기화

1. 전원을 켜십시오.
2. 장치가 자동으로 재부팅될 때까지 초기화 버튼을 누르십시오.
3. 초기화된 네트워크 정보를 이용해 장치를 연결하십시오.
   - TCP/IP 주소: DHCP 주소 할당 (DHCP 주소 할당을 실패하면 169.254.x.x로 설정됩니다.)
   - 서버 모드: 사용 해제
   - RS-485: 기본값, 115200 bps
4. TCP/IP나 RS-485 정보를 변경하십시오.
5. 전원을 꺼고 컨트롤 네트워크 정보가 올바르게 설정되었는지 확인하십시오.

공장 초기화

장치에 저장된 모든 정보와 루트 인증서를 삭제하고 설정을 초기화합니다.

1. 전원을 켜십시오.
2. 초기화 버튼을 빠르게 세 번 누르십시오.
3. 장치의 LED가 초록색으로 깜빡거릴 때 초기화 버튼을 한 번 더 누르십시오.

알아두기

- 장치에 저장된 루트 인증서가 존재하지 않음 경우 공장 초기화를 진행할 수 없습니다.
## 제품 사양

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<td>0% - 95%, 비응축</td>
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<td>80 mm x 130 mm x 25 mm</td>
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<tr>
<td>최대 사용자 수</td>
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<tr>
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<td>최대 로그 수</td>
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<td>이더넷</td>
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<td>지원(10/100 Mbps, auto MDI/MDI-X)</td>
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<td>탱패</td>
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<td>지원</td>
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<td>전기 규격</td>
<td></td>
<td></td>
</tr>
<tr>
<td>전원</td>
<td></td>
<td>전압: 12 VDC. 전류: 최대 500 mA 또는 전압: 24 VDC. 전류: 최대 250 mA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* 12 VDC, 1 A 또는 24 VDC, 0.5 A 사양의 전원을 사용하십시오.</td>
</tr>
<tr>
<td>스위치 입력 VH</td>
<td></td>
<td>최소 3 V, 최대 5 V</td>
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<tr>
<td>스위치 풀업 저항</td>
<td></td>
<td>4.7 kΩ (입력 단자는 4.7 kΩ로 폭발되어 있습니다.)</td>
</tr>
<tr>
<td>Wiegand 출력 VOH</td>
<td></td>
<td>최소 4.8 V</td>
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<tr>
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<td>Wiegand 출력 풀업 저항</td>
<td></td>
<td>1 kΩ으로 내부 폭발</td>
</tr>
<tr>
<td>킬레이</td>
<td></td>
<td>전압: 최대 30 VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>전류: 최대 2 A</td>
</tr>
</tbody>
</table>

* RF 인식 거리는 설치 환경에 따라 다를 수 있습니다.
* DESFire EV2 카드는 DESFire EV1 카드와 하위 호환되므로, DESFire EV1 카드의 기능을 포함하여 CSN 및 스마트 카드 기능이 지원됩니다.
제품 크기

(단위: mm)
* 치수 공차는 ±0.3mm입니다.
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- 수신 안테나의 방향을 조정하거나 재설치합니다.
- 장비와 수신기 사이의 간격을 늘립니다.
- 장비를 수신기가 연결된 회로와 다른 회로의 콘센트에 연결합니다.
- 편웨어나 양의 라디오/TV 기술자에게 문의합니다.

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• Bluetooth 송신 전력: 3.7dBm
• Bluetooth 주파수: 2402~2480 MHz
• NFC 주파수: 13.56 MHz
• RFID 주파수: 13.56 MHz + 125 kHz

더 자세한 내용은 아래 연락처로 연락하십시오.
㈜슈프리마
웹사이트: https://www.supremainc.com
주소: 경기도 성남시 분당구 정자동 248 (정자동 6) 파크뷰타워 17층
전화: 031-783-4510 / 팩스: 031-783-4517
부록

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Version 3, 29 June 2007
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