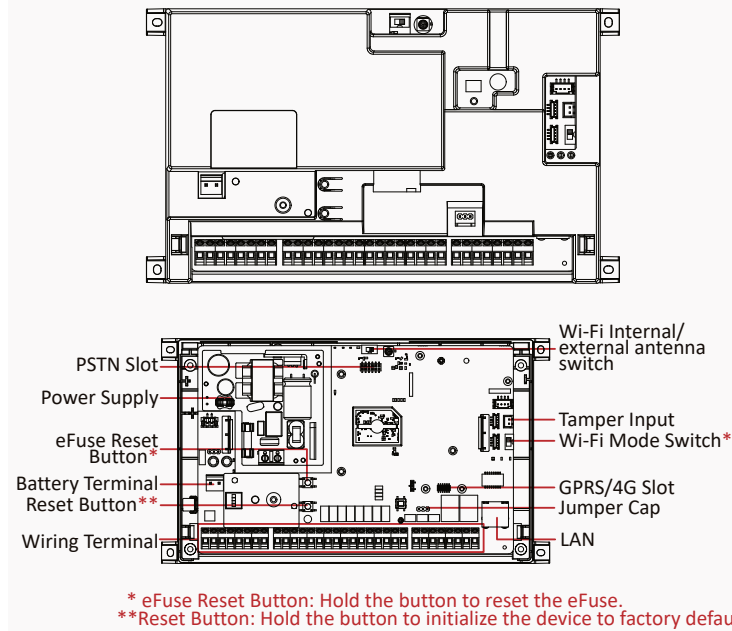


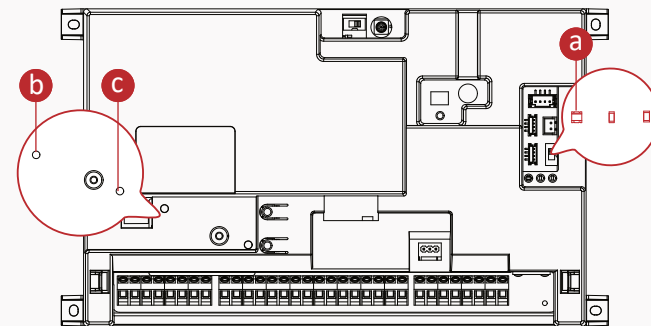
AX HYBRID PRO Control Panel Unit Quick Start Guide

EN 50131-1:2006+A1:2009+A2:2017+A3:2020
EN 50131-3:2009
EN 50131-6:2017
EN 50131-10:2014
EN 50136-1:2012+A1:2018
EN 50136-2:2013
Security Grade 2
Environment Class II
SP4
DP2

1 Appearance



Indicators

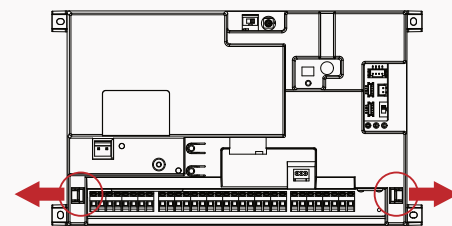


a	System	During system startup: Solid red Startup completed: Flash green Startup and connected to the cloud: Solid green
b	Battery Reverse	When the battery reverses its polarity connection, the indicator will be on.
c	Power	When the device is powered on, the indicator will be on.

2 Installation and Wiring

Note: Power down the control panel before wiring accessories and peripherals.

Step 1 Unlock the buckles and remove the front cover.

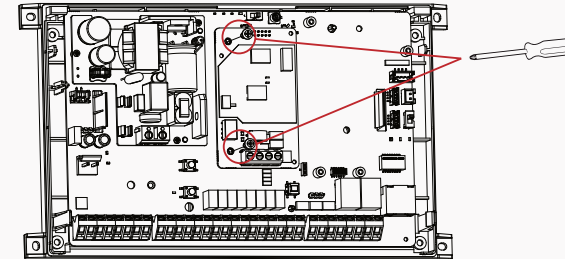


User Manual



UD42865B-B

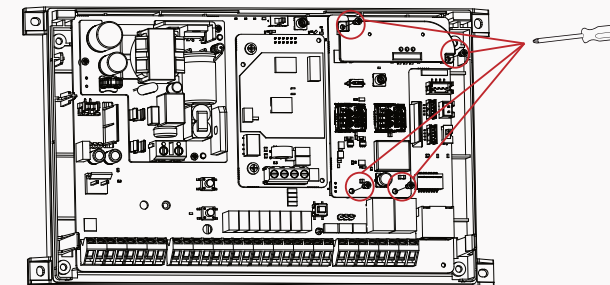
Step 2 Fix the PSTN communicator (sold separately) and wiring.
Note: Please always power off before installing or removing the communicator.



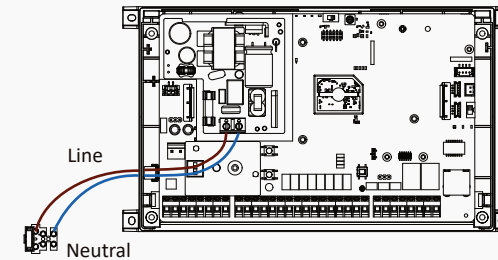
Step 3 Fix the GPRS/4G communicator (sold separately).

Notes:

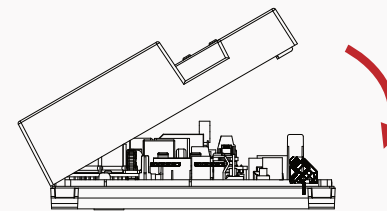
- Please verify whether the communicator is GPRS or 4G before installation, as their appearances differ.
- Please always power off before installing or removing the communicator.



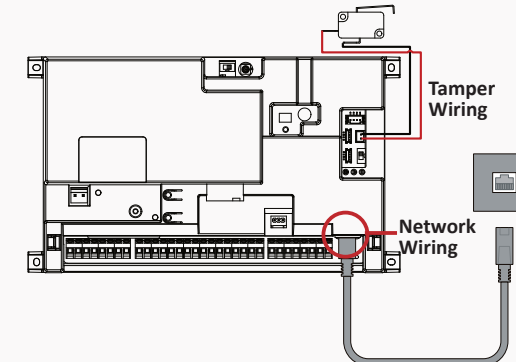
Step 4 Wire the power supply terminals.



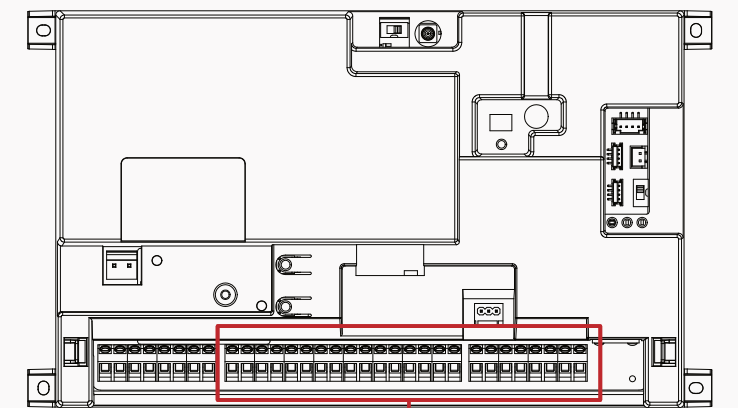
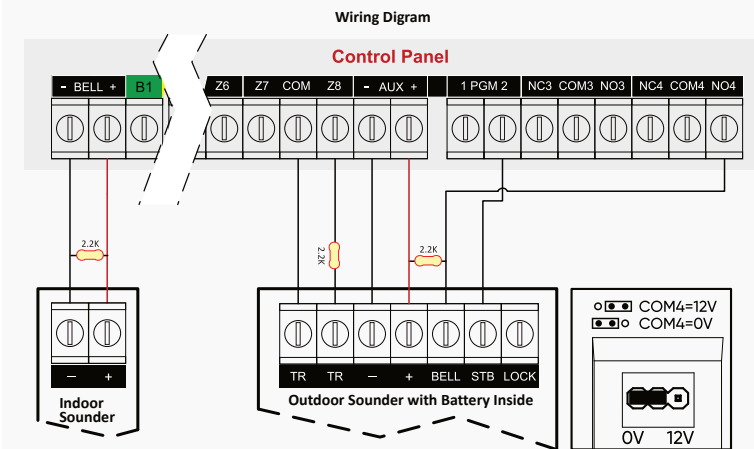
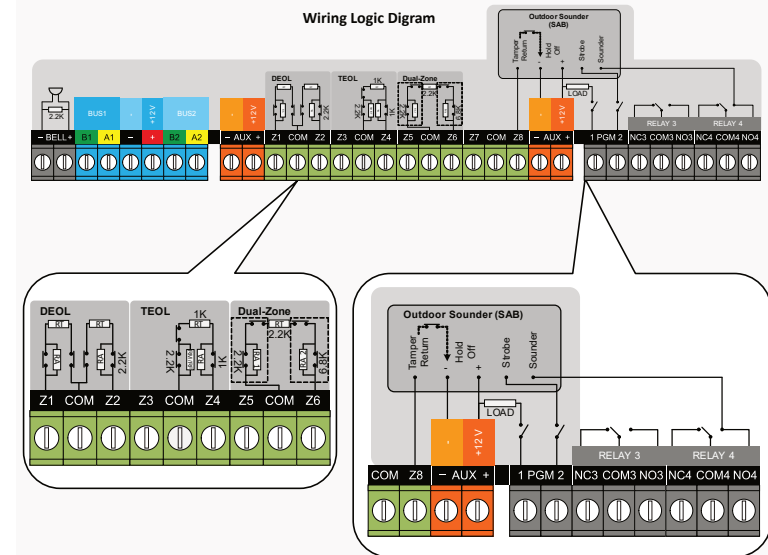
Step 4 Close the front cover of the control panel.



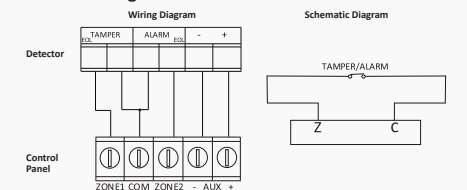
Step 5 Wire the network cable and the tamper switch.



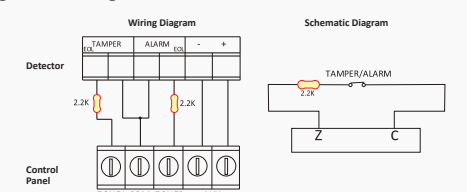
Step 6 Wire peripherals.



1 Non Resistor Wiring



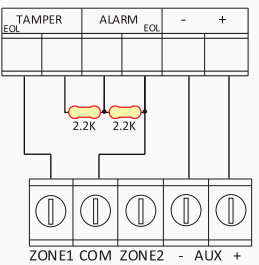
2 Single EOL Wiring



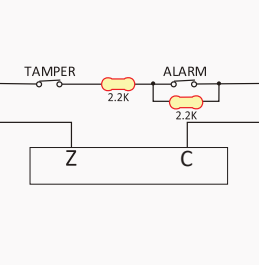
3

Double EOL Wiring

Wiring Diagram



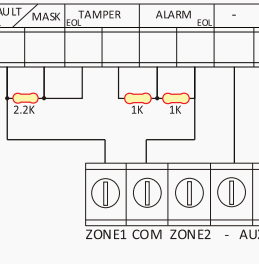
Schematic Diagram



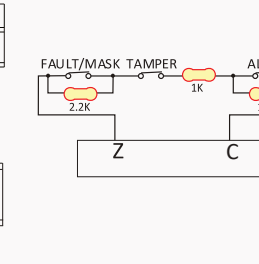
4

Triple EOL Wiring

Wiring Diagram



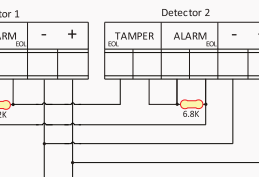
Schematic Diagram



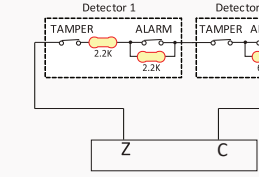
5

Double Zone Wiring

Detector 1



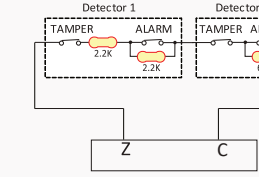
Detector 2



Control Panel



Detector 1



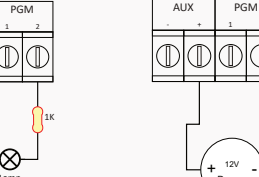
Detector 2



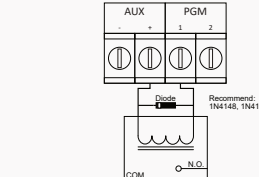
6

Lamp Wiring

AUX



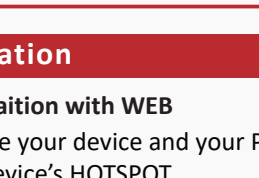
PGM



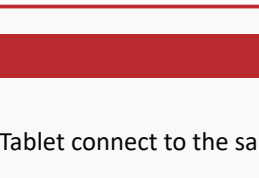
7

Buzzer Wiring

AUX



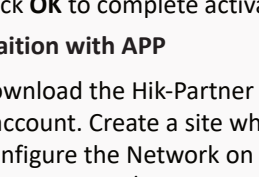
PGM



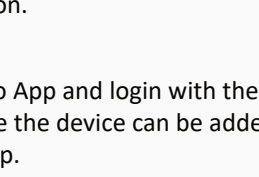
8

Relay Wiring

AUX



PGM



3) Connect your phone to your home Wi-Fi.
4) Open the App, tap **Scan**. Scan the QR code or bar code of the control panel and wait for the result.
Note: The QR code is printed on the label stuck on the front cover of the AX HYBRID PRO.
Or you can tap **Manual Adding** and enter the serial No.
Or you can tap **Album** and select the picture to scan.

5) If the device is online and supports physical button connection, tap **Add** to go to the connection page. Waiting for the device to appear, tap **Add**.
Note: AX PRO is to tap the Tamper Button, AX HYBRID PRO is to tap the Reset Button.
If the device is offline, It will go to the device connection page. When the device's AP mode is enabled, It will automatically connect to the device's AP. The device will display in the network configuration list on Wi-Fi Connection page (only supports connecting 2.4G network) after connection succeeded. Tap the device's Wi-Fi and fill in the password.
Note: If the verification code is required, enter the code.
After confirming the Wi-Fi password, configure the network of the device.
6) Wait for the device to join the home Wi-Fi and log in the Cloud.

4 Peripheral Adding

Step 1 On the App, select AX HYBRID PRO on the device list page.
Step 2 Tap **Device** → **Add Device**.
Step 3 Add devices based on peripheral types.
Bus Device
Tap to add peripherals.
Wired Device
1) Tap **Wired Device**. Select **Device Type** and **Channel No.**.
2) Tap **Add** to add the peripheral.
Wireless Device

Method 1 Scan QR Code

- Scan the QR code on the peripheral.
Or tap  to enter the device serial No. and select the device type manually.
- Select one of the receivers and tap **OK**.
- Turn on the peripherals to add.

Method 2 Batch Add

- Tap **Batch Add**.
- Select one of the receivers and then tap confirm to add batch wireless devices.

Note: Make sure that the wireless receiver has connected before adding wireless devices.

Network Camera / IP Device

Select **SADP Scanning** or **Manually Add** to add peripherals.

5 Arming and Disarming

On the App, select AX HYBRID PRO on the device list page. Tap **Area**.

	Away Arming	Activates all security zones, including both perimeter and interior detectors, providing full protection when the premises are unoccupied.
	Stay Arming	Activates only perimeter zones such as door and window sensors, while interior zones remain inactive to allow safe movement within the premises.
	Disarming	Deactivates all security zones and suppresses alarm triggering, allowing unrestricted access and movement throughout the premises.

6 Specification

Model	64 series	96 series	128 series
Inputs (Zones)			
Max. Zones	64	96	128
On-board Zones	8	8	8
PIR-CAMs	24	36	48
Outputs			
Max. Outputs	64	96	128
On-board PGM Outputs	2	2	2
On-board Relay Outputs	2	2	2
On-board Sounder Output	1	1	1
Auxiliary Power Output	1	1	1
Areas			
Areas	32	48	64
Peripherals			
Sounders	8	12	16
Keypads	16	24	32
8-zone expanders	8	12	16
4-relay expanders	16	24	32
Wireless receivers	8	12	16
Power Supply Units	15	15	15
IPC Video Verification			
IPC channels	32	32	32
IPC video verification	4 × 7 sec	4 × 7 sec	16 × 7 sec
Pre-record	2 or 5 seconds	2 or 5 seconds	2 or 5 seconds
Programming			
Automation scenarios	256	256	256
Event Logs			
Event log records	4950 including 1000 mandatory ^a in flash memory		
User - Administrator			
Admin	1	1	1
Administrator (Cloud)	1	1	1
User - Installer			
Installer	1	1	1
Installer (cloud)	1	1	1
User - Operators			
Max. Operators	100	128	128
User (Cloud)	64	64	64
User - Authorization Devices			
Keyfobs	64	64	64
Tags	100	200	252
Bus Interconnection			
Bus ports	2		
Bus Technology	Half-Duplex RS-485		
Bus wiring	4-core alarm cable (at least 2 × 0.5 mm ² + 2 × 0.22 mm ²)		
Bus typologies	Daisy Chain, Cascade, Star ^b , Ring		
Range per Bus	Up to 500m (Up to 7500m with bus-extendors, Up to 1km in compatible mode) ^f		
Bus-extendors per Bus	Up to 15 pcs, 500 m in between		
Devices per Bus	Up to 32	Up to 48 (32 in compatible mode)	Up to 64 (32 in compatible mode)
Communication Interfaces			
LAN/Ethernet	1 on-board, 10/100 Mbps self-adaptive		
Wi-Fi	802.11b/g/n (2.4 GHz)		
GPRS	Compatible with DS-PC501G (Optional)		
4G/LTE	Compatible with DS-PC501S (Optional)		
PSTN	Compatible with DS-PM2-P (Optional)		

ARC Connectivity	
ARC	4
Signaling Protocols	Contact ID(PSTN), SIA DC-09 ^a , CSV-IP, OTAP
Acknowledgment operation	Pass-through
Alarm Transmission Categories	SP3, DP2 (with optional GPRS/4G communicator)
3rd Party Communicator	Compatible with FSK, RDC, IDS modules
Power Supply - General	
PS type ^e	Type A
Quiescent current ^f	130 mA @15 VDC (when on battery)
Power Supply - Primary Power Supply (Mains)	
Mains input	~ 100 to 240 V 50/60 Hz, 0.3 A
Power supply	Total capacity 15.3 VDC 2.5 A (0.5 A dedicated to battery)
Power Supply - Auxiliary Power Supply (Battery)	
Battery pack	Rechargeable sealed lead-acid (SLA) battery (not included by default)
Battery capacity ^g	12 VDC, Up to 7 Ah (≥ 5600 mAh in charged state)
Recommended	OUTDO OT7-12 (7 Ah), Yuasa NP7-12FR (7 Ah)
Battery stand-by	Up to 12 ^h hrs
Floating voltage	13.8VDC
Recharge period	24 hrs to 80% (5600 mAh)
Low energy voltage	11.60 ± 0.5 V (Restore when rise above 11.74 ± 0.5 V)
Cut-off voltage	11.0 VDC for deep-discharge protection
Power Supply - Auxiliary Power Output (AUX)	
Output capacity	14.5 V nominal, 1.5A, 10.7 to 15 VDC with ripple 120 mV(V _{pp})
Output protection	1.7 A resettable eFuse
Power Supply - Bus Power Output (shared AUX power output)	
Output voltage	14.5 V nominal, 10.7 to 15 VDC with ripple 120 mV(V _{pp}), max. 20W
Output protection	1.7 A resettable eFuse (shared AUX power output)
Power Supply - Sounder Power Output (BELL)	
Output capacity	14.5 V nominal, 1.0A, 10.7 to 15 VDC with ripple 120 mV(V _{pp})
Output protection	1.3 A resettable eFuse
PGM Outputs	
Output voltage	0 VDC with switched (NPN output)
Max. Current	200 mA per output
Relay Output	
Relay output	3A 30 VDC, 1A 250 VAC
Environmental	
Operating temperature	-10°C to 50°C (14°F to 122°F), indoor use only
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Relative humidity	10% to 90% non-condensing
Physical	
Dimension (W × H × D)	231 mm × 133 mm × 44 mm
Weight	488 g
Compliance	
Electrical conformity	CE, CB
EN 50131	Security Grade 2, Environmental Class II

Note:
•EN50131 compliance labeling should be removed if non-compliant configurations are used.
•Keyswitch and smoke detector functions are outside the scope of EN 50131 compliance.

- As per requirements defined in EN 50131-1:2006+A3:2020
The alarm system can be handed over to a company-level installer account on the Hik Partner Pro. The installer account can include multiple employee accounts, each requiring an active paid license.
- The star topology is only supported in compatible mode or with a bus hub device. Connecting multiple branches to a single bus port can significantly reduce the bus range.
- Compatible with SIA IP Reporting (UDP/TCP-2013) as per ANSI/SIA DC-09-2013:Internet Protocol Event Reporting. The control panel supports tokens (protocols) of ADM-CID and SIA-DCS defined in SIA DC-07-2001.04, which will be modified to insert a "*" before token name as *ADM-CID and *SIA-DCS when the data and timestamp of transmission message are AES encrypted. AES-128, AES-192 and AES-256 are all supported.
- In the condition of Wi-Fi standby, Ethernet disconnected, with all communicator disconnected.
- Nominal value. Actual capacity may vary slightly. The actual battery capacity for each individual device may be slightly above or below the nominal battery capacity.
- Removing the battery may cause damage to the device. To replace or repair the battery, please contact your installer.
- Provided that all functions are operational and the load connected to the AUX-/AUX+ terminals does not exceed 336 mA. All specifications are measured under laboratory conditions. Actual performance may vary depending on operating environment and application-specific factors.
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-
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This device is suitable for use in chassis cabinet only.
Cet appareil ne peut être utilisé que dans une armoire à châssis.
Dieses Gerät ist nur für den Einsatz im Schaltschrank geeignet.
Este dispositivo es adecuado para uso únicamente en gabinetes de chasis.
Questo dispositivo è adatto solo per l'uso in un cabinet di chassis.
Este dispositivo é adequado para ser utilizado apenas em armários de chassis.
Dit apparaat is alleen geschikt voor gebruik in een chassisbehuizing.
Toto zařízení je vhodné pouze pro použití ve skříni podvozku.
Denne enhed er kun egnet til brug i chassiset.
Ez az eszköz kizárólag rack szerkezeten történő használatra alkalmas.
To urządzenie nadaje się wyłącznie do użytku w szafie szkieletowej.
Acest dispozitiv este potrivit pentru utilizare numai în dulapul șasiului.
Toto zariadenie je vhodné len na použitie v skrinke šasi.
Perangkat ini hanya cocok untuk digunakan pada kabinet sasis.
ဤစက်ကိုရိယာသည့် စက်ပစ္စည်းသုံးယူရန်သာသင့်တော်သည်။
ಈသတ်မှတ်ကြမ်းသို့ အသုံးပြုရန် သင့်လျော်သည်။
Bu cihaz yalnızca şasi kabininde kullanıma uygundur.
Цей устрій підходить тільки для використання в шасис-шкафі.
Цей пристрій придатний для використання лише в шафі-шасі.
هذا الجهاز مناسب للاستخدام في خزانة الهيكل فقط.