System Technical Specification

Main Panel
P/N: 2MB1-AX1ACEBXKN

Physical	: 194mm x 112mm
Electrical Voltage Input	: 100/C from 100/DC 2.5A adapter
Auxiliary/Strobe Light/ Bell Output	: 12V DC, 500mA
Siren Output	: 12V DC, 2A
Programmable Output	: 12V DC, 100mA

AX1 Avan Touch Keypad
P/N: 2MB1-AX1EMPXRWN

Physical	: 168mm x 113mm Built in speaker Backlit keys
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 200mA

** Available Color (Metallic Black or Pearl White)

AX1 LCD Keypad
P/N: 2MB1-AX1ALCDKPGN

Physical	: 114mm x 94mm Backlit keys
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 100mA

AX1 Icon Keypad
P/N: 2MB1-AX1AICONKN

Physical	: 130mm x 98mm Backlit keys
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 100mA

AX1 LED Keypad
P/N: 2MB1-AX1LEDKPGN

Physical	: 130mm x 95mm Backlit keys
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 100mA

High Current Relay Module (with Feedback)
P/N: 2MB1-HCRELAYMGN

Physical A	: 39mm x 39mm
Physical B	: 67mm x 24mm
DC Power Supply	: 12V DC
Electrical Current Drain	: 35mA max
AC Power Supply	: 240V AC, 50Hz
Power Rating	: 4800 Watts max (20A max)

High Current Relay Module (HCRM) C
P/N: 2MB1-HCRELAYMCTN

Physical	: 24mm x 47mm x 27mm
DC Power Supply	: 10.5V to 14.4V DC
Electrical Current Drain	: 50mA max
AC Power Supply	: 240V AC, 50Hz
Power Rating	: 3840 Watts max (16A max)

Zone Expander P/N: 2MB1-AX1ZONEXPFN

Physical	: 83mm x 70mm
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 50mA

Keypad Voice Speaker P/N: 2MB1-AX1KPXSCEN

Physical	: 37mm x 25mm
Electrical Voltage Input	: 3.3V DC
Electrical Current Drain	: 10mA

IO Expander P/N: 2MB1-AX1IOEXPCN

Physical	: 83mm x 70mm
Electrical Voltage Input	: 12V DC
Electrical Current Drain	: 50mA

2-G Switch Module P/N: 2MB1-AX2SMDXG

Physical	: 85mm x 85mm
Electrical Voltage Input	: 240V AC
Maximum load on each relay	: 1A, 240V AC
Electrical Current Drain	: 33mA each

Telephone Voice Module P/N: 2MB1-AX1AVOCEMFN

Physical	: 33mm x 26mm
Electrical Voltage Input	: 3.3V DC
Electrical Current Drain	: 15mA

** Available Language (English & Mandarin)

E2KEY Module P/N: 2MB1-AX1AE2KEYFN

Physical	: 46mm x 23mm
Electrical Voltage Input	: 3.3V DC
Electrical Current Drain	: 10mA

GSM Module P/N: 2MB1-AX1GSMXMSWN

Physical	: 93mm x 83mm x 23mm
DC Power Supply	: 12V DC
Electrical Current Drain	: 2mA

Webserver Module P/N: 2MB1-WEBSRVERMFN

Physical	: 83.25mm x 93mm x 19.6mm
DC Power Supply	: 10.5V to 14.4V DC
Electrical Current Drain	: 200mA max

** Coupled With AX1 Interbox Module

Security and Home Automation System

Complete Home Automation Solutions,
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AX1 Icon and LED Keypad Schematic Diagram

AX1 Avan Touch And LCD Keypad Schematic Diagram

AX1 Icon Keypad
- Icon Base Indication
- User Friendly
- Yellow Backlit Keys

AX1 LED Keypad
- LED Base Indication
- Simple
- Yellow Backlit Keys

Features for AX1 Icon and LED Keypad

Security
- 8 Fully Programmable Zones
- **Supports up to 4 Keypads**
- Arming Type **(Auto Home/Day/Away/Force/Night)**
- **1 Real Time ARM/DISARM Timer** (Daily Basis)
- Real Time Clock Function
- 4 Siren Types **(Steady/Pulse/Chirp/Silent)**
- Programmable Entry/Exit Delay Time
- 3 Zone Types (EOL/NO/NC)
- **Individual Zone adjustable Loop Response Sensitivity**
- Codes **(2 Users/4 Guests)**
- Key Switch Function (Latch/Momentary)
- Voice Interaction (Menu/Call-In/Call-Out/Reporting)*
- RS485 Ready (Longer Distance Communication)
- Support Remote Programming via Phone
- Programmable Event Trigger & Reporting
- Fast Key on Keypad for Easy Menu Access
- Duress Code
- 3 Soft Zones (Emergency/Fire/Panic)
- 2 Programming Mode (User/Installer)
- Ademco* Contact ID CMS Reporting Format
- Report Events to 4 Phone and 4 Account Numbers
- **GSM (SMS)**- Reporting and Control*
- 3 Ports for 12V Supply*
- Double call-in, fax machine telephone line sharing

Automation*
- 8 Output Control (With Feedback Capability)
- 4 Real Time ON/OFF Timer (Daily Basis)

Test/Protection
- Dedicated Tamper Zone
- AC Power Supply Monitoring
- Low Battery Indication
- Short-Circuit Protection
- Bell/Strobe/Siren Loss Detection
- Bell Test Function
- Telephone Line Lost Detection (Optional)
- Walk Test Function

Away Home Arming
This is normal type of arming which means all zone status are close.

Stay Arming
Interior zone automatically bypass

Night Arming
Interior zone automatically bypass, for exclusive day customers.

Force Arming
Arm instantly regardless of System status.

Away Arming
Arm instantly that the system is arm remotely by phone.

Zone Bypass
Temporary isolates the selected zone from being tracked by user.

Home Automation
Indicated for automation mode. Control on/off and check output status

Chime Mode
On/Off the chime sound.

Panic
Panic Keypad indication.

Emergency
Emergency Keypad indication.

Fire
Fire Keypad indication.

Delay Time Counter
Display the remaining delay time.

Timer Display
Indicate the great number of timer, alarm and automation.

ALARM Alarm indication/memory.

TROUBLE System trouble indication.

AX1 Avan Touch Keypad
- Sensible Touching
- Natural Human Voice (Guided)
- 4 Inch 2 x 16 LCD Display
- Bi-color Mode (Amber/Blue)

AX1 LCD Keypad
- Smart Outlook
- Natural Human Voice
- 21/2 Inch 2 x16 LCD Display

Features for AX1 Avan Touch and LCD Keypad

Security
- 8 to 32 Full Programmable Zones
- **Supports up to 8 Keypads**/**
- Arming Type **(Auto Home/Day/Away/Force/Night)**
- **4 Real Time ARM/DISARM Timer** (Daily or Schedule Basis)
- Real Time Clock Function
- 4 Siren Types **(Steady/Pulse/Chirp/Silent)**
- Programmable Entry/Exit Delay Time
- 3 Zone Types (EOL/NO/NC)
- **Individual Zone adjustable Loop Response Sensitivity**
- Codes **(12 Users/4 Guests)**
- Key Switch Function (Latch/Momentary)
- Voice Interaction (Menu/Call-In/Call-Out/Reporting)*
- RS485 Ready (Longer Distance Communication)
- Support Remote Programming via Phone
- Programmable Event Trigger & Reporting
- Fast Key on Keypad for Easy Menu Access
- Duress Code
- 3 Soft Zones (Emergency/Fire/Panic)
- 2 Programming Mode (User/Installer)
- Ability to Divide into 4 Partitions
- 4 Programmable Output
- Customizable Zone Naming Indicator
- Ademco* Contact ID CMS Reporting Format
- Report Events to 4 Phone and 4 Account Numbers
- **GSM (SMS)**- Reporting and Control*
- 3 Ports for 12V Supply
- Event Log (Up to 1000 Events)
- Double call-in, fax machine telephone line sharing

Automation*
- Expandable up to 32 Output Control (With Feedback Capability)
- 4 Real Time ON/OFF Timer (Daily or Schedule Basis)
- Customizable Output Naming Indicator

Test/Protection
- Dedicated Tamper Zone
- AC Power Supply Monitoring
- Low Battery Indication
- Short-Circuit Protection
- Bell/Strobe/Siren Loss Detection
- Bell Test Function
- Telephone Line Lost Detection (Optional)
- Walk Test Function

*Optional
** Terms and Conditions Apply