

AMAX panel 4000

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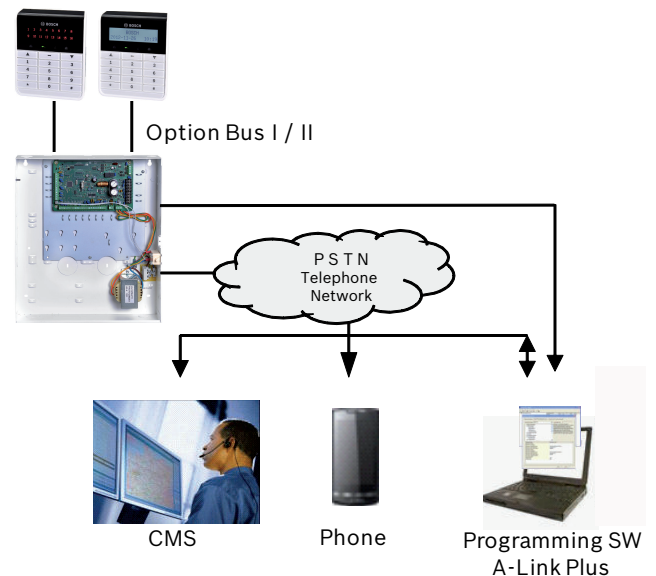
BOSCH
Invented for life



- ▶ 64 Hardwired zones / 16 Areas / 250 User codes
- ▶ 3 x 256 Events log stamped with date and time
- ▶ On-board voice dialer
- ▶ Macro functionality
- ▶ USB direct connection

This panel is designed for residential and small to medium-sized businesses. It offers 64 zones and 16 areas and comes with an enclosure and a transformer. An on-board PSTN dialer transmits an alarm via the common telephone network to a phone and / or a communication center while at the same time a voice message is sent to the owner's landline or mobile phone to inform him about an intruder's presence. Commissioning the system is simple and involves minimum programming: the default settings already cover 90 % of the available functionality. Programming can either be done via the AMAX TEXT, LCD and LED keypads or via the programming software (A-Link Plus). The intrusion system can be used with both RADION wireless peripherals, operating at 433 Mhz and hardwired detectors from Bosch.

System overview



Functions

This panel is a 64 zone / 16 area intrusion control panel with enclosure and transformer. The system includes a PSTN dialer to transmit an alarm via the common telephone network. An alarm can be

transmitted to a phone and a communication center. Program the control panel easily with the AMAX TEXT, LCD and LED keypads or via the remote programming software, A-Link Plus.

Basic functions

- Keypad Code STAY / AWAY Arming
- One Button STAY / AWAY Arming
- On-board dialer with CID / SIA transmission format. Voice dialer transmits up to 4 recorded messages to landline/mobile phones in case of an alarm. Record messages with a PC and send to the control panel with the remote programming software, A-Link Plus.
- Program up to 16 weekly schedules and exceptions in the calendar.
- 3 programmable macros: several single functions from the keypad are combined to one customer macro function. Execute by pressing one button.
- Execute remote maintenance operations (eg. Walk Test, Bypass)
- In multi-area set-up (direct and multiple arming), "area status" is displayed.
- Display Area Name in the master keypad
- 3 on-board outputs (two monitored)
- Use any zone with four-wire fire detectors
- Use any zone for Chime Mode (Door Bell)
- Use any zone to detect Sensor Tamper (DEOL)
- Test Mode for outputs and zones

Optional functions

- Wireless devices (433 MHz) RADION from Bosch
- Zone inputs on extension modules (with DX2010)
- Relay outputs on extension modules (with DX3010)
- Connect outdoor sirens and IP cameras to an optional 8 relay module (DX3010)
- Programming key

Optional Alarm Transmission

- IP communication with Bosch Conettix IP / SIA DC09 (UDP) Protocol via B426 module
- GPRS communication with Bosch Conettix IP I / SIA DC09 (UDP) Protocol via B450 module

Optional Remote Programming

- IP (B426 module)
- GPRS (B450 module)

Optional Video Alarm Verification

Optional video alarm verification is possible in combination with DX3010 8 relay module and IP 200 camera series of Bosch. The live video verification ensures a location check and false alarm reduction via Internet from every location worldwide. This means that you or the monitoring center can get alarm notification in order to detect the exact location where the alarm was triggered and if a real intruder is present.

Communication with Bosch Software Packages

The AMAX system can communicate with the following software packages:

A-Link Plus (RPS)

The AMAX system can be accessed and programmed via the remote programming software A-Link Plus. All control panel and status information are accessible and an operation of the AMAX panel from a remote location is possible.

A-Link Plus can connect to the AMAX panel via USB, IP or modem.

AMAX SDK

AMAX SDK is used to integrate AMAX panel information into 3rd party software. SDK integrates the AMAX panel functionalities and enables receiving AMAX panel data with a 3rd party system management software.

AMAX SDK can connect to the AMAX panel via USB or IP.

Compatibility Information

Basic	
PSTN Communicator (Integrated)	Formats: Contact ID, SIA
Magnetic Contacts ⁽¹⁾	All magnetic contacts, including recessed, terminal connection, miniature over-head door, and surface mount.
Intrusion Detectors ⁽¹⁾	All conventional intrusion detectors, including Blue Line, seismic, PIR, TriTech, photoelectric and TriTech PIR Microwave.
Four-wire Smoke Detectors ^(1,2)	Conventional 12V smoke, heat and photoelectric smoke detectors.
Optional ^(1,2)	
Zone	DX2010 zone input module
Relays	DX3010 output module
IP-Communicator	B426 Ethernet Network Interface Module
GPRS/GSM Communicator	B450 Module

Assorted literature is available. Refer to the appropriate datasheet, brochure, and installation guide for additional data.

Availability varies according to sales region.

Certifications and approvals

Region	Certification	
Germany	VdS	H113018 AMAX panel 4000 EN, IUI-AMAX4-TEXT, IUI-AMAX3-LED8, IUI-AMAX3-LED16
Europe	CE	EN 50130-4, EN 6100-3-2, EN 6100-3-3, EN 6100-6-3, EN 60950-1 AMAX Panel 4000 EN + AMAX Panel 3000 BE

Region	Certification	
	CE	EN 50130-4, EN 6100-3-2, EN 6100-3-3, EN 6100-6-3, EN 60950-1 AMAX panel 4000
	EN50131	EN-ST-000123 ICP-AMAX4-P2-EN, ICP-AMAX4-P3-EN
Belgium	INCERT	B-509-0063 AMAX panel 4000 EN
Sweden	SBSC	13-387 AMAX panel 4000 EN
France	AFNOR	1223400001 ICP-AMAX4-P2-EN, ICP-AMAX4-P3-EN

- Battery 18Ah standby 36h (recharge Batt 80% in 24h) = 480mA
- Battery 18Ah standby 36h + 15min alarm current 1000mA (recharge Batt 80% in 24h) = 400mA

Parts included

CTN	Pcs	Description
AMAX panel 4000 family	1	64 zone / 16 areas intrusion panel with enclosure and transformer, tamper, integrated PSTN-Communicator
	1	User Guide, multilingual

Technical specifications

Electrical

Power supply type EN = A

Transformer

Transformer input in VAC	230
Transformer output in VAC	18
Transformer AC power in VA	50
Transformer fuse in mA	1000

AC input

Minimum operating voltage in VDC	195
Maximum operating voltage in VDC	253
Line voltage frequency in Hz	50

DC output

DC output maximum current for all components in mA	2000
DC output maximum current for all components: dependency on battery	<ul style="list-style-type: none"> • Battery 7Ah standby 12h (recharge Batt 80% in 72h) = 550mA • Battery 7Ah standby 36h + 15min alarm current 500mA (recharge Batt 80% in 72h) = 150mA • Battery 18 Ah standby 12h (recharge Batt 80% in 72h) = 1500mA

Aux 1 / 2 output

Aux 1 / 2 output voltage	+12V / GND
Aux 1 / 2 nominal output voltage under AC line input in VDC	13.8 (+3% / -5%)
Aux 1 / 2 output max. Vpp in mV	675
Aux 1 / 2 output voltage range under AC line input in VDC	13.11 – 14.2
Aux 1 / 2 output current in mA	900

Outputs

PO -1 / PO -2 maximum supervised output current in mA	500
PO +3 / PO +4 maximum current in mA (+12V)	750
Watchdog PO -5 maximum current in mA	100

Option bus

Option bus nominal output voltage under AC line input in VDC	13.8 (+3% / -5%)
Option bus output voltage range under AC line input in VDC	13.11 – 14.2
Option bus 1 maximum current in mA	900
Option bus 2 maximum current in mA	900
Panel PCB maximum quiescent current in mA	100

Battery

Battery type	12 V / 7Ah / 12 V / 18 Ah Bosch IPS-BAT12V-18AH
Low battery condition in VDC	below 11.0
Minimum battery condition in VDC	10.8

Mechanical

Dimension in cm (H x W x D)	37.5 x 32.2 x 8.8
Weight in g	4700

Panel features

Number of zones	64
Number of users	250
Number of events	256 history events, stamped with time, and date 256 EN history events, stamped with time, and date 256 dialer history events, stamped with time, and date
Pin code variations	1000000
Number of devices	
Number of keypads	16
Number of DX 2010 modules	6
Number of DX 3010 modules	2
Number of DX 4010 modules	1
Number of GPRS modules: B450 with B442 or B443, DX4020-G	Up to 2 different GPRS modules, each GPRS module can only be connected once
Number of IP modules: B426	2 (1 if 1 of the GPRS modules above is connected, 0 if 2 of the GPRS modules above are connected)
Number of RF receivers	1
Number of RF repeaters	DSRF = 0, Radion = 8
Number of RF sensors	64
Number of RF keyfobs	DSRF = 24, Radion = 128
Zones	
Zone 1	2 wire fire zone, single, or dual end-of-line (EOL 2,2K Ω) NC, NO
Zone 2 – 16 COM	15 single or dual end-of-line (EOL 2,2K Ω) NC, NO
Tamper	Enclosure tamper input (does not reduce point capacity)
Option bus	
Dimensions in mm	4 wire, \varnothing 0.6 – 1.2
Maximum cable length in m	200 (panel to last keypad)
Maximum bus length in m	700 (maximum 14 devices, maximum 8 keypads)
Environmental	
Minimum operating temperature in °C	-10
Maximum operating temperature in °C	55

Minimum relative humidity in %	10
Maximum relative humidity in %	95
Protection class	IP 30, IK 06

Ordering information

AMAX panel 4000

Language Package 1: English, Polish, Turkish
This product variant is not certified according to European standards.
Order number **ICP-AMAX4-P1**

AMAX panel 4000 EN

Language Package 2: French, German, Dutch, Portuguese
Order number **ICP-AMAX4-P2-EN**

AMAX panel 4000 EN

Language Package 3: English, Spanish, Polish, Swedish
Order number **ICP-AMAX4-P3-EN**

Accessories

AMAX keypad 2000 D8

AMAX keypad 2000 D8, 8 zones LCD Icon keypad.
Order number **IUI-AMAX-LCD8**

AMAX keypad 3000 L8

AMAX keypad 3000 L8 is a 8 zone LED keypad.
Approval: EN 50131-3 Grade 2
Order number **IUI-AMAX3-LED8**

AMAX keypad 3000 L16

AMAX keypad 3000 L16 is a 16 zone LED keypad.
Approval: EN 50131-3 Grade 2
Order number **IUI-AMAX3-LED16**

ICP-EZPK Programming Key

Blue key for transferring information to and from Easy Series Intrusion Control Panels.
Order number **ICP-EZPK**

DX3010 Octo-output Expander

Package includes only the DX3010 board.
Order number **DX3010**

DX2010 Input Expander

Zone expansion module with 8 DOEL zone inputs.
Order number **DX2010**

B426 Ethernet Communication Module

Supports two-way communications over Ethernet networks for compatible control panels.
Order number **B426**

B442 Conettix Plug-in GPRS Cellular Communicator

Multi-function cellular communicator that provides IP communication over a (GPRS) cellular network.
Order number **B442**

B443 Conettix Plug-in HSPA+ Cellular Communicator

Multi-function 3G/4G cellular communicator providing IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network.

Order number **B443**

B450 Conettix Plug-in Communicator Interface

Supports two-way IP communication over commercial cellular networks using a plug-in Cellular Communicator for compatible control panels.

Order number **B450**

AE20EN Enclosure

AE20EN plastic enclosure for DX2010/DX3010.

Order number **AE20EN**

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