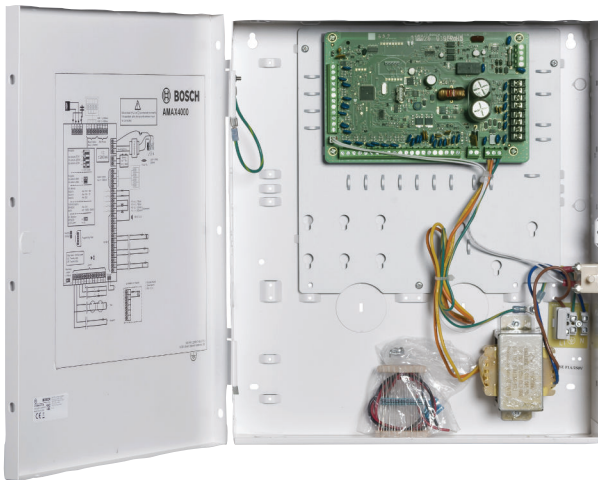


# AMAX panel 4000

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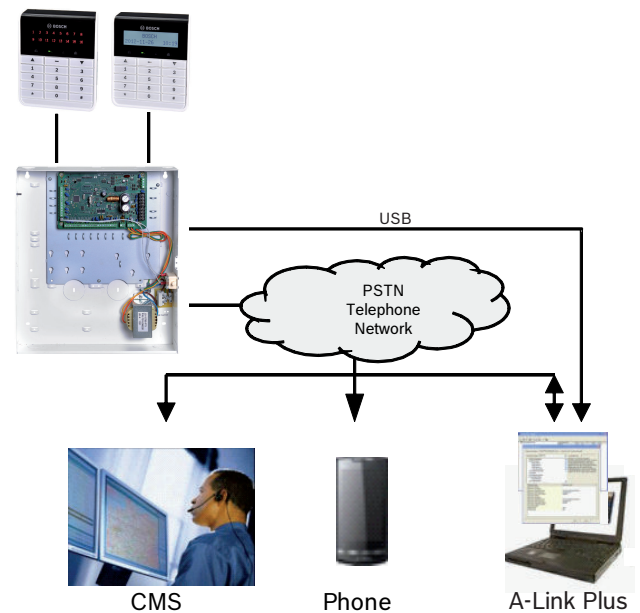
**BOSCH**  
Invented for life



- ▶ 64 zones / 16 areas / 250 user codes
- ▶ On-board voice dialer
- ▶ Macro functionality
- ▶ USB direct connection

This hybrid 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

### 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. Messages can be recorded with A-Link Plus and sent to the control panel with the remote programming software A-Link Plus
- 16 weekly schedules with the option to add exceptions in the calendar
- 3 programmable macros: several single functions from the keypad are combined to one customer macro function, can be executed by pressing one button
- Remote maintenance operations (e.g. walk test, bypassing)
- Installer can enable the service mode for comfortable programming without having alarms or outputs triggered
- In multi-area set-up (direct and multiple arming), "area status" is displayed
- Area name is displayed on the master or area text keypad
- 4 on-board outputs (two monitored)
- Up to three output event types can be configured for one physical output
- Every zone except zone 1 can be used with four-wire fire detectors
- Any zone can be used for chime mode (door bell)
- Any zone can be used to detect a sensor tamper (DEOL)
- Zones can be bypassed by name
- 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
- Arming, bypassing, isolating, operating outputs and inquiry with the RSC+ app on mobile devices (with the B426-M or the B450-M with B442 or B443 modules)

### Optional alarm transmission

- IP communication with Bosch Conettix IP, SIA DC09 UDP and SIA DC 09 TCP protocols via B426-M and B450-M with B442 or B443 modules
- GPRS communication with Bosch Conettix IP, SIA DC09 UDP and SIA DC 09 TCP protocols via B450-M with B442 or B443 modules

### Optional remote programming via A-Link Plus

- IP communication (B426-M and B450-M with B442 or B443 modules)
- GPRS communication (B450-M with B442 or B443 modules)

### Communication with Bosch Software Packages

The AMAX system can communicate with the following software packages:

#### Remote programming software A-Link Plus

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.

### Compatibility information

#### Basic

PSTN communicator (integrated)	Formats: Contact ID, SIA DC 03
Magnetic contacts	All magnetic contacts, including recessed, terminal connection, miniature over-head door, and surface mount.
Intrusion detectors	All conventional intrusion detectors, including Blue Line, seismic, PIR, TriTech, photoelectric and TriTech PIR Microwave.
Four-wire smoke detectors	Conventional 12V smoke, heat and photoelectric smoke detectors.

#### Optional

Zone	DX2010 zone input module
Relays	DX3010 output module
IP communicator	B426-M and B450-M with B442 or B443 modules
GPRS/GSM communicator	B450-M with B442 or B443 modules
Wireless devices	All RADION devices

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

Availability varies according to sales region.

### Certifications and approvals

Region	Regulatory compliance/quality marks	
Germany	VdS	H113018 [AMAX panel 4000 EN, IUI-AMAX4-TEXT, IUI-AMAX3-LED8, IUI-AMAX3-LED16]
Europe	CE	EMC, LVD, RoHS [AMAX panel 4000 EN, AMAX panel 3000 BE]
	CE	AMAX panel 4000, AMAX Panel 3000-BE

Region	Regulatory compliance/quality marks	
	EN5013 1	EN-ST-000123 [ICP-AMAX4-P2-EN, ICP-AMAX4-P3-EN, ICP-AMAX4-P4-EN]
Belgium	INCERT	B-509-0063 B [ICP-AMAX4-P2, ICP-AMAX4-P3, ICP-AMAX3-P2]
Sweden	SBSC	13-387 [AMAX panel 4000 EN]
France	AFNOR	1223400001 [ICP-AMAX4-P2-EN, ICP-AMAX4-P3-EN]
	AFNOR	1223400002A0 [ICP-AMAX3-P2-EN, ICP-AMAX3-P3-EN]
	AFNOR	1223400001A1 FR_AFNOR 1223400001A1 [ICP-AMAX4-P2-EN]

## Technical specifications

### Electrical

Power supply type	EN = A
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### 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"> <li>Battery 7Ah standby 12h (recharge Batt 80% in 72h) = 550mA</li> <li>Battery 7Ah standby 36h + 15min alarm current 500mA (recharge Batt 80% in 72h) = 150mA</li> <li>Battery 18 Ah standby 12h (recharge Batt 80% in 72h) = 1500mA</li> <li>Battery 18Ah standby 36h (recharge Batt 80% in 24h) = 480mA</li> <li>Battery 18Ah standby 36h + 15min alarm current 1000mA (recharge Batt 80% in 24h) = 400mA</li> </ul>

### 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 at 25°C	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 at 25°C	900
Option bus 2 maximum current in mA at 25°C	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

### Frequency bands of operation

Frequency bands of operation	Power level for radio equipment
GSM900	Class 4 (2W) - GPRS Class 33
GSM1800	Class 1 (1W) - GPRS Class 33
UMTS2100	Class 3 (0.25W)

### 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
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Number of on-board zones	16
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 GPRS modules: B450-M with B442 or B443	1
Number of IP modules: B426-M	2 (1 if 1 of the GPRS modules above is connected)
Number of RF receivers	1
Number of RADION RF repeaters	8
Number of RF sensors	64
Number of DSRF RF keyfobs	24
Number of RADION RF keyfobs	128

**Zones**

Zone 1	2 wire fire zone, single, or dual end-of-line (EOL 2,2K $\Omega$ ) NC, NO
Zone 2 - 16 COM	15 single or dual end-of-line (EOL 2,2K $\Omega$ ) 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****ICP-AMAX4-P1 Intrusion panel, en/pl/tr/hu**

Language package 1: English, Polish, Turkish, Hungarian

Not certified according to European standards

Order number **ICP-AMAX4-P1**

**ICP-AMAX4-P2-EN Intrusion panel, fr/de/nl/pt**

Language Package 2: French, German, Dutch, Portuguese

Order number **ICP-AMAX4-P2-EN**

**ICP-AMAX4-P3-EN Intrusion panel, en/es/pl/sv**

Language Package 3: English, Spanish, Polish, Swedish

Order number **ICP-AMAX4-P3-EN**

**ICP-AMAX4-P4-EN Intrusion panel, IT/EL**

Language Package 4: Italian, Greek

Order number **ICP-AMAX4-P4-EN**

**Accessories****IUI-AMAX-LCD8 LCD keypad, 8-zone**

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

**IUI-AMAX3-LED8 LED keypad, 8-zone**

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

**IUI-AMAX3-LED16 LED keypad, 16-zone**

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

**IUI-AMAX4-TEXT Text keypad**

AMAX keypad 4000 T, LCD text keypad, two lines with each 18 characters  
Order number **IUI-AMAX4-TEXT**

**DX2010 Input expander, 8-zone**

Zone expansion module with 8 DEOL zone inputs  
Order number **DX2010**

**DX3010 Output expander, 8-relay**

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

**AE20EN Enclosure for module w/tamper skirt, EN**

AE20EN plastic enclosure for DX2010/DX3010  
Order number **AE20EN**

**B426-M Ethernet communication module, mobile**

Supports Ethernet communication for remote programming and mobile apps on AMAX and Solution Series control panels  
Order number **B426-M**

**B450-M Plug-in communicator interface, mobile**

Supports cellular communication for remote programming and mobile apps on AMAX and Solution Series control panels  
Order number **B450-M**

**B442 Plug-in cellular module, GPRS**

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

**B443 Plug-in Cellular, HSPA+ (3G+)**

Multi-function 3G/4G cellular communicator providing IP communication over a GPRS/EDGE/UMTS/HSPA+ cellular network  
Order number **B443**

**ICP-EZPK Programming key**

Blue key for transferring configurations to and from Easy Series and AMAX panels  
Order number **ICP-EZPK**

**ICP-EZRU-0106 ROM UPDATE KEY - EZ V1**

Green key for upgrading the panel firmware  
Order number **ICP-EZRU-0106**

**RFRC-OPT Wireless option bus interface**

A wireless receiver that connects RADION wireless peripherals such as the repeater, as well as detectors and transmitters, to supported Bosch control panels. For use in Europe.  
Order number **RFRC-OPT**

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