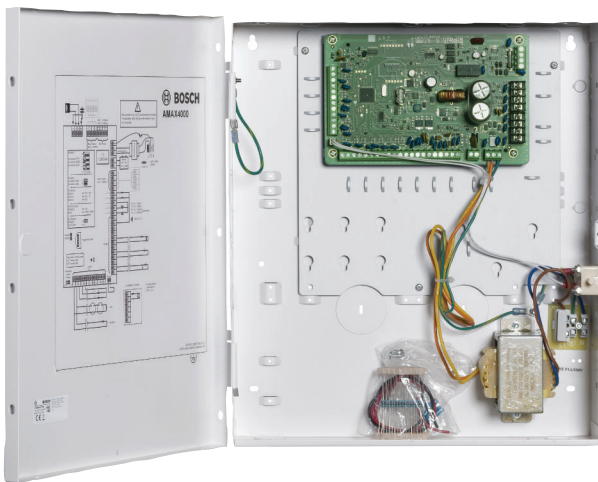


# AMAX panel 4000

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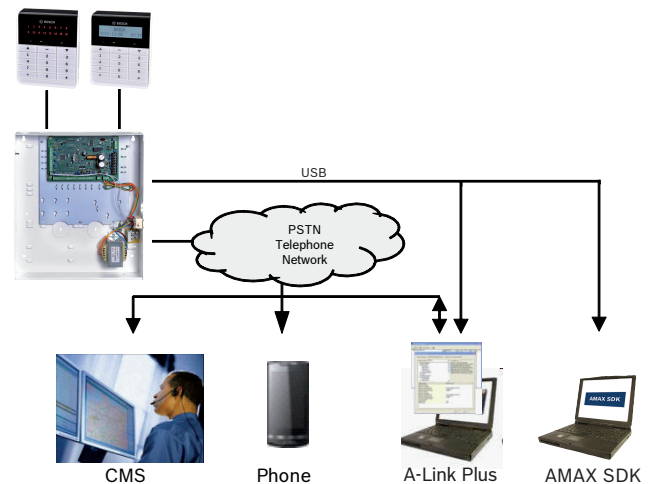
**BOSCH**  
Invented for life



- ▶ 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

### 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

#### Optional alarm transmission

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

#### Optional remote programming via A-Link Plus

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

#### Optional video alarm verification

Optional video alarm verification is possible in combination with a DX3010 8 relay module and an IP camera with an analogue alarm input and a relay output. 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:

##### 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.

##### AMAX SDK (software development kit)

AMAX SDK is a Windows DLL (dynamic link library) used to integrate AMAX panel information into 3<sup>rd</sup> party software. AMAX SDK integrates the AMAX panel functionalities and enables receiving AMAX panel data with a 3<sup>rd</sup> 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 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 and B450 with B442 or B443 modules
GPRS/GSM communicator	B450 with B442 or B443 module

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	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
	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 a AMAX panel 4000 EN
Sweden	SBSC	13-387 AMAX panel 4000 EN
France	AFNOR	1223400001 ICP-AMAX4-P2-EN, ICP-AMAX4-P3-EN

## Parts included

Qty.	Description
1	AMAX panel 4000 including integrated PSTN communicator
1	Enclosure
1	Transformer
1	Tamper switch
1	Terminal block for power supply
1	Hardware accessory pack: EOL resistors
1	Operation Manual

## Technical specifications

### Electrical

Power supply type	EN = A
<b>Transformer</b>	
Transformer input in VAC	230
Transformer output in VAC	18
Transformer AC power in VA	50
Transformer fuse in mA	1000
<b>AC input</b>	
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	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	1
Number of IP modules: B426	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, $\emptyset$ 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  
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  
Certification: EN 50131-3 Grade 2  
Order number **IUI-AMAX3-LED8**

**AMAX keypad 3000 L16**

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

**DX2010 Input Expander**

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

**DX3010 Octo-output Expander**

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

**AE20EN Enclosure**

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

**B426 Ethernet Communication Module**

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

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**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**

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**B442 Conettix Plug-in GPRS Cellular Communicator**

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

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**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**

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**ICP-EZPK Programming Key**

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

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**ICP-EZRU2 ROM Update Key**

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

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