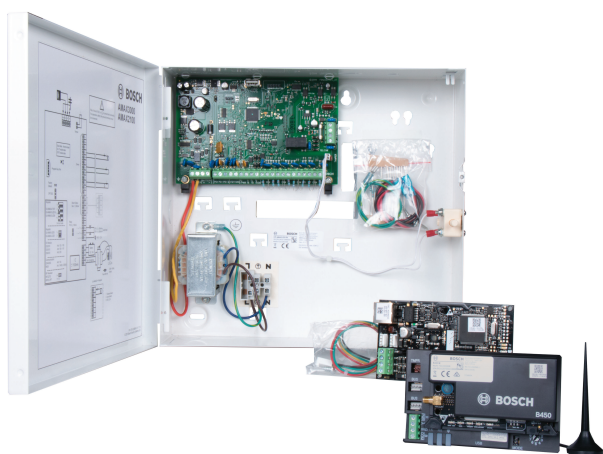# AMAX 2100 Kits

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BOSCH

Invented for life

- ▶ 8 hardwired zones / 2 areas / 64 user codes
- ▶ On-board voice dialer
- ▶ Macro functionality
- ▶ USB direct connection
- ▶ Mobile app functionality

The AMAX panel kits include one panel and one communicator.
The panel is available with the following language packages:
Language package 1: English, Polish, Turkish, Hungarian
Language Package 2: French, German, Dutch, Portuguese
Language Package 3: English, Spanish, Polish, Swedish
Language Package 4: Italian, Greek
The following communicators are available:
- B426-M Ethernet communication module, mobile
- B450-M Plug-in communicator interface, mobile with B442 Plug-in cellular module, GPRS
- B450-M Plug-in communicator interface, mobile with B443 Plug-in Cellular, HSPA+ (3G+)

AMAX panel 2100
This panel is designed for residential and small to medium-sized businesses. It offers 8 zones and 2 areas and comes with an enclosure and a transformer.
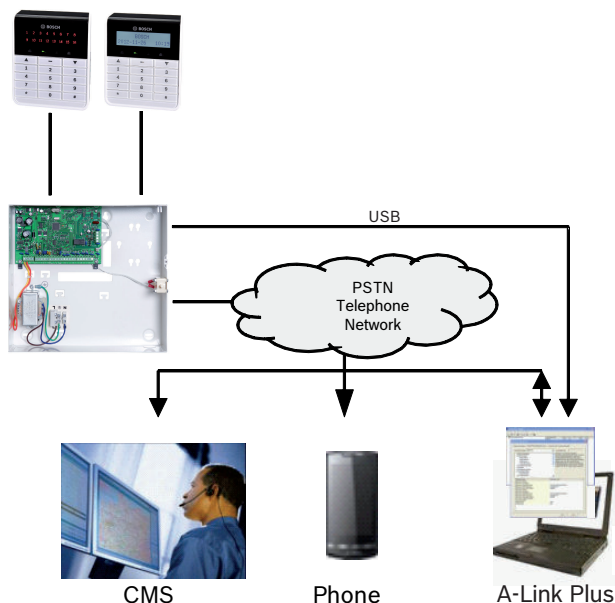An on-board PSTN dialer transmits an alarm via the common telephone network to a phone and / or a communication center while at the same time a voice message is sent to the owner's landline or mobile phone to inform him about an intruder's presence.

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 hardwired detectors from Bosch.

System overview

AMAX panel 2100

CMS   Phone   A-Link Plus

Functions

AMAX panel 2100

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
- Relay outputs on Extension module (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

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

Assorted literature is available. Refer to the appropriate datasheet, brochure, and installation manuals for additional data.
Availability varies according to sales region.

RSC+ mobile app functionality
The RSC+ app provides remote access to the control panel with a mobile device. The following functions are possible:
- Arming
- Force arming
- Disarming
- Bypassing/unbypassing
- Isolating/unisolating
- Operating outputs
- Status inquiry
- Event/history inquiry

RSC+ compatibility
The RSC+ app can be used for Android v5.0 and higher.
The RSC+ app can be used for iOS v9.0 and higher.

RSC+ push notifications
Per default, push notifications for alarms are sent. Additionally, push notifications for system events and fault/trouble events can be switched on.

Regulatory information

Region		Regulatory compliance/quality marks
Germany	VdS	H116003 [AMAX 2100/3000, RFRC-OPT, RFUN, RFDW-RM, RFDW-SM, RFPR-12, RFDL-11, RFKF-TB, RFKB-FB]
Europe	CE	AMAX panel 2100, AMAX panel 3000
	EN50131	EN-ST-000166 ICP-AMAX2-P2-EN, ICP-AMAX2-P3-EN, ICP-AMAX2-P4-EN, ICP-AMAX3-P2-EN, ICP-AMAX3-P3-EN, ICP-AMAX3-P4-EN
Sweden	SBSC	14-523 [ICP-AMAX2-P3-EN]

Technical specifications

AMAX panel 2100

Electrical

Power supply type	EN = A

Transformer

Transformer input in VAC	230
Transformer output in VAC	18
Transformer AC power in VA	20
Transformer fuse in mA	500

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	1100
DC output maximum current for all components: dependency on battery	• Battery 7Ah standby 12h (recharge Batt 80% in 72h) = 550mA • Battery 7Ah standby 36h + 15min alarm current 500mA (recharge Batt 80% in 72h) = 150mA

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	12.82 - 13.9
Aux 1 / 2 output current in mA at 25℃	500

Outputs

PO -1 / PO -2 maximum supervised output current in mA	500
PO -3 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℃	500
Panel PCB maximum quiescent current in mA	100

Battery

Battery type	12 V / 7 Ah Bosch D 126
Low battery condition in VDC	below 11.0
Minimum battery condition in VDC	10.8

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)	26.0 x 28.0 x 8.35
Weight in g	1950

Panel features

Number of zones	8
Number of on-board zones	8
Number of users	64
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	4
Number of DX 3010 modules	1
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)

Zones

Zone 1	Single or dual end-of-line (EOL 2,2KΩ) NC, NO
Zone 2 – 16 COM	7 Single or dual end-of-line (EOL 2,2KΩ) NC, NO
Tamper	Enclosure tamper input (does not reduce point capacity)

Option bus

Dimensions in mm	4 wire, Ø 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

AMAX2-P1E Intrusion kit, en/pl/tr/hu,Ethernet
Kit including one AMAX panel 2100 and one B426-M
Ethernet communication module, mobile
Language package 1: English, Polish, Turkish,
Hungarian
Not certified according to European standards
Order number **AMAX2-P1E**

AMAX2-P1G Intrusion kit, en/pl/tr/hu, GPRS
Kit including one AMAX panel 2100, one B450-M Plug-
in communicator interface, mobile, and one B442 Plug-
in cellular module, GPRS
Language package 1: English, Polish, Turkish,
Hungarian
Not certified according to European standards
Order number **AMAX2-P1G**

AMAX2-P2ENE Intrusion kit, fr/de/nl/pt,Ethernet
Kit including one AMAX panel 2100 and one B426-M
Ethernet communication module, mobile
Language Package 2: French, German, Dutch,
Portuguese
Order number **AMAX2-P2ENE**

AMAX2-P2ENH Intrusion kit, fr/de/nl/pt, HSPA+
Kit including one AMAX panel 2100, one B450-M Plug-
in communicator interface, mobile, and one B443 Plug-
in Cellular, HSPA+ (3G+)
Language Package 2: French, German, Dutch,
Portuguese
Order number **AMAX2-P2ENH**

AMAX2-P3ENE Intrusion kit, en/es/pl/sv,Ethernet
Kit including one AMAX panel 2100 and one B426-M
Ethernet communication module, mobile
Language Package 3: English, Spanish, Polish, Swedish
Order number **AMAX2-P3ENE**

AMAX2-P3ENG Intrusion kit, en/es/pl/sv, GPRS
Kit including one AMAX panel 2100, one B450-M Plug-
in communicator interface, mobile, and one B442 Plug-
in cellular module, GPRS
Language Package 3: English, Spanish, Polish, Swedish
Order number **AMAX2-P3ENG**

AMAX2-P4ENE Intrusion kit, it/el, Ethernet
Kit including one AMAX panel 2100 and one B426-M
Ethernet communication module, mobile

Language Package 4: Italian, Greek
Order number **AMAX2-P4ENE**

AMAX2-P4ENG Intrusion kit, it/el, GPRS
Kit including one AMAX panel 2100, one B450-M Plug-
in communicator interface, mobile, and one B442 Plug-
in cellular module, GPRS
Language Package 4: Italian, Greek
Order number **AMAX2-P4ENG**

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**

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**

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**

ICP-AMAX-LS Enclosure lock and key set
Enclosure lock and key set
Order number **ICP-AMAX-LS**