

# AMAX 2100 / 3000 / 4000

en Quick Start Manual



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# 1 Graphics



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Figure 1.1: Wiring diagram for AMAX panel 2100 / 3000



Figure 1.2: Wiring diagram for AMAX panel 4000

# 2 Safety



# Danger!

#### Electricity

Injuries due to electricity are possible if the system is not operated correctly or if the system is opened or modified not accordingly to this manual.

- Disconnect all Telecommunication Network Connectors before switching off the power.
- To switch off the power, make sure to have a circuit breaker available.
- Make sure that the system is switched off during the installation and wiring process.
- Only open or modify the system accordingly to this manual.
- Make sure to connect the system to a socket-outlet with a protective grounding contact.
- Only qualified installers /service personnel are allowed to install this system.



#### Danger!

Battery

Injuries due to electric shock, fire or explosion are possible if the battery is handled or connected incorrectly.

- Always handle the battery carefully and replace it carefully.
- Make sure that the grounding terminal is always connected and that N, L1 or 😉 xx are connected correctly.
- Make sure to first disconnect the positive wire of the battery when removing it from the system.
- Be careful when connecting the positive (red) wire and the "BATT +" port of the system.
   Make sure not to short-circuit with the "BATT +" port of the AMAX panel or the housing to prevent electric arc from occurring.



#### Danger!

Electrostatic-sensitive components

Injuries due to electric shock are possible if anti-static steps are not followed.

 Always contact the grounding terminal before installing the system to discharge the possibly carried static electricity.



#### Caution!

Sensitive components

Damage of sensitive components is possible if the system is not handled carefully or if the system is opened or modified not accordingly to this manual.

- Always handle the system carefully.
- Only open or modify the system accordingly to this manual.



#### Caution!

#### Battery

Damage or contamination of the system is possible if the battery is not handled correctly or if the battery is not replaced on a regular basis.

- Only use a non-spillable battery.
- Place a label with the last replacement date on the battery.

- Under normal conditions of use, replace the battery every 3-5 years.
- Recycle the battery after replacement according to local regulations.



# Caution!

#### Installation

Damage or malfunction of the system is possible if the system is not mounted and installed correctly.

- Place the system inside the monitored area on a stable surface.
- Make sure to mount keypads on the inner side of the monitored area.
- Once the system is tested and ready to use, secure the enclosure door and additional enclosures with screws.



#### Caution!

#### Maintenance

Damage or malfunction of the system is possible if it is not maintained on a regular basis.

- It is recommended to test the system once a week.
- Make sure to get the system maintained four times a year.
- Only qualified installers /service personnel are allowed to maintain this system.

# **3** Short information

This Quick Start Guide contains information on how to get the system into operation easily and quickly. The guide describes the main steps required for basic system installation and setup of an AMAX panel together with one IUI-AMAX4-TEXT keypad and one RFRC-OPT RADION receiver. The program tree structure is provided at the end of this guide. Detailed information about installation of other modules and devices, advanced settings and programming can be found in the Installation Guide. For detailed operation information, please refer to the User Guide. 4

# **Connecting Modules and Devices**

The AMAX panel provides BOSCH option bus 1 and option bus 2 (only for AMAX 4000) to connect modules and devices. Each module can be connected to each bus. A maximum of 14 modules (8 keypads) can be connected to each bus.

The following overview displays the maximum number of modules that can be connected.

Module	AMAX panel 2100	AMAX panel 3000	AMAX panel 4000
Keypads	4	8	16
DX2010		3	6
DX3010	1	2	•
B426 or DX4020	2 / 1 if DX4020G is used		
B450 with B442	1		
DX4020G	1		
DX4010	1		
RF receiver		1	

Table 4.1: Maximum number of modules

#### How to connect a keypad and a RADION receiver:

- 1. Connect the keypad to the option bus on the AMAX panel according to the wiring diagram (refer to *Graphics, page 4*).
- 2. Connect the RFRC-OPT RADION receiver to the option bus on the AMAX panel according to the wiring diagram (refer to *Graphics, page 4*).
- 3. Connect the red and black wires supplied with the battery to the AMAX panel and the battery.
- 4. Connect the power adapter and battery to the mains.

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# **Programming and Operating the AMAX System**

The AMAX system can be programmed and operated with menus by using keypads and/or the A-Link Plus remote programming software on a PC.

When all modules and devices are installed, the AMAX panel indicates the system status with the LED status indicator on the system main board. A slow flashing in red (repeating on and off with an interval of 1 second) indicates normal system operation.

The AMAX panel begins charging the battery. The green **MAINS** indicator on the keypad indicates that the power supply is switched on and the keypad beeps.

- > Press any key on the keypad.
  - The keypad stops beeping and you are prompted to enter a code.

The AMAX system provides two types of default access codes:

- Installer Code: [1234]
- User Code: [2580]

# 5.1 Option: Changing Menu Language

If necessary, the menu language can be changed. If not, proceed to section Accessing the Menus, page 10.

- Enter the installer code [1234] + [58] or the user code [2580] + [58] and press [#]. The available menu languages are displayed.
- 2. Select the desired language on the keypad.
- 3. Press [#].
- $\checkmark$  The menu language is changed.

# 5.2 Accessing the Menus

#### Accessing the Programming Menu

- 1. Confirm that the system is disarmed.
- Enter the installer code. The default setting for the installer code is [1234]. The system displays [958] PROGR. MODE [-EXIT].
- 3. Enter [958] + press [#].
- $\checkmark$  You have now access to the programming menu for configuring the AMAX system.
- ✓ The **STAY** and **AWAY** indicators flash to indicate the programming mode.

#### Accessing the User Menu

- Enter the user code. The default setting for the user code is [2580].
- ✓ The system displays [▼/▲] USER MENU \*STAY #AWAY [-] INFO.
- $\checkmark$  You have now access to the user menu for operating the AMAX system.

# 5.3 Menu Navigation

This section provides an overview of how to navigate the programming menu of a text keypad.

#### Selecting a Menu

- 1. Select the menu and operate according to the menu prompt.
- 2. Press [▼] or [▲] to navigate to the desired menu.
- 3. Press [#] to enter a menu.

#### Exiting a Menu

• Press [-] to get back to the previous menu.

#### **Confirming the Input**

• Press [#] to confirm the input.

#### **Switching between Settings**

• Press and hold [\*] for 3 seconds to switch between settings.

#### **Operating a Menu**

- Operate according to the menu prompt. Select the menu and enter data for specific programming items according to the display on the keypad to complete the programming, step by step.
- 2. Press [#] to confirm each step.

#### **Exiting the Programming Menu**

- 1. Complete all programming input by repeating the programming steps above and press [-] to get back to the current main menu level by level.
- 2. Press [-] to get to the **EXIT PROG. +SAVE** menu.

It is optional to save or not to save the programming data.

- 1. Select **EXIT PROG. +SAVE** and press [#] to save the data and to exit the programming mode.
- 2. Select **EXIT PROG. UNSAVED** and press [#] to exit programming mode without saving the data.

# 5.4 Programming the AMAX System via Keypad

If the keypad is in standby mode, it gets enabled as soon as the first digit of a code is entered.

#### 5.4.1 Setting Date and Time

After the system is powered up, date and time must be set. Otherwise, the system displays a fault.

- 1. Make sure that the system is in a disarmed status (the **STAY** and **AWAY** indicators are disabled).
- 2. Enter the installer code [1234] + [51] and press [\*] to get to **CHANGE DATE / TIME**.
- 3. Enter the current date and time by using the numeric keys and press [\*] to confirm.
- $\checkmark$  Date and time are set.

#### 5.4.2 Deleting a Zone

The zones 1-8 are enabled by default. The zone type for zone 1 is set as **03-delay 1**, for zones 2-8 as **01-instant** by default. Perform the following steps if you want to delete a zone.

- 1. Enter the installer code [1234] + [958] and press [#].
- 2. Select **3 ZONE MANAGER** and press [#].
- 3. Select ADD/DELETE ZONES and press [#].

The system displays the next menu item: **INPUT ZONE No.** 

- 4. Enter the number of the zone you want to delete (example: 1) and press [#]. The system displays the next menu item: **ZONE NAME INPUT.**
- 5. Optionally enter a name for the zone. Therefore, the numbers on the text keypad function as an alphabetical input.
- 6. Press [#] to confirm.
  - The system displays the next menu item: **ZONE MODULE SEL.**
- Select the correct zone module (default is 0-on board zone) and press [#]. The system displays the next menu item: ZONE FUNCTION.
- 8. Enter 00 for the zone function **00-not used** and press [#].

The system displays the next menu item: **ZONE IN AREA**. There is no need to proceed to the following menu items for deleting a zone.

- 9. Press [-] four times to get to the **EXIT PROG. +SAVE** menu.
- 10. Press [#] to save the data end exit the programming mode.
- $\checkmark$  The selected zone is deleted (example: zone 1 is deleted).

#### 5.4.3 Enabling the RF Receiver for Wireless Communication

- 1. Enter the installer code [1234] + [958] and press [#].
- 2. Select **7 RF MANAGER** and press [#].
- 3. Select **RF SETTING** and press [#].
- 4. Select **RF RECEIVER** and press [#].
- 5. Select **1-enable** and press [#].
- 6. Press [#] to confirm.
- 7. Press [-] three times to get to the **EXIT PROG. +SAVE** menu.
- 8. Press [#] to save the data end exit the programming mode.
- $\checkmark$  The RF receiver for wireless communication is enabled.

#### 5.4.4 Setting up a Zone for an RF Device

- 1. Enter the installer code [1234] + [958] and press [#].
- 2. Select **3 ZONE MANAGER** and press [#].
- Select ADD/DELETE ZONES and press [#].
   The system displays the next menu item: INPUT ZONE No.
- 4. Enter the number of the zone to which you to assign the RF device and press [#]. The system displays the next menu item: **ZONE NAME INPUT.**
- 5. Optionally enter a name for the zone. Therefore, the numbers on the text keypad function as an alphabetical input.
- 6. Press [#] to confirm.
  - The system displays the next menu item: **ZONE MODULE SEL.**
- Select the correct zone module depending on the RF device: For RFUN / RF3401E (Zone input only) select 5-RF RFUN no magn For RFGB / RF1100E (Glass Break Detector) select 4-RF RFGB glassb. For all other RF devices (Zone input only) select 3-RF all
- Press [#] to select and [#] again to confirm.
   The system displays the next menu item: **ZONE FUNCTION.**
- Enter 01 for the zone function **01-instant** and press [#]. The system displays the next menu item: **ZONE IN AREA**.
- Enter the number of the area you want to assign to this zone and press [#]. The system displays the next menu item: **ZONE RFID: MANUAL**.
- 11. Enter the RF ID manually (9 digits).

Or

Press and hold [\*] for three seconds to switch to the **ZONE RFID: AUTO** menu. Trigger the RF device to give alarm once. The RF ID will be entered automatically.

- 12. Press [#] to confirm.
- 13. Press [-] four times to get to the **EXIT PROG. +SAVE** menu.
- 14. Press [#] to save the data end exit the programming mode.
- $\checkmark$  The selected zone is set up for an RF device.

• Test the zones after finishing programming. Trigger the zone and verify that the keypad indicates the zone as open.

### 5.5 Programming the AMAX Sytem via PC and USB

By using the A-Link Plus remote programming software on a PC, the AMAX panel configuration can be remotely programmed or controlled. For direct communication, the PC and the AMAX panel have to be connected with the USB cable (male A / male A).

#### 5.5.1 Installing the Programming Software

- Double-click on the **A\_Link\_setup.exe** file to install the programming software on the PC.
- $\checkmark$  An installation wizard guides you through the installation.

#### 5.5.2 Connecting the PC and the AMAX Panel

- 1. Connect the USB cable to the USB port on the AMAX panel and to one of the USB ports on the PC.
- 2. Follow the operating system instructions to install the USB driver. You will find the device driver in the A-Link Plus program path for installation (example: C:\Programme\Bosch Security System\A-Link Plus\USB\_DRIVER).
- 3. Open the **Device Manager** in the operating system control and check if the USB driver has been installed and which COM port has been assigned to it.
- 4. If the USB driver has not been installed automatically, install it manually.
- $\checkmark$  The installation creates an additional COM device on the PC.

#### 5.5.3 Starting the Programming Software

1. Select Start – All Programs – Bosch Security Systems – A-Link Plus – A-Link Plus vn.n.n.

*n.n.n* = current program version

Or

Double-click the **A-Link Plus v***n*.*n*.*n* shortcut on your computer desktop.

- 2. When the Login dialog opens, enter the **Operator** name and **Password**. The default entries are **ADMIN** for both the **Operator** and **Password** fields.
- 3. Click **OK** to log in to A-Link Plus.

### 5.5.4 Setting the COM Port

The COM port that has been assigned to the additional COM device (here *COM4*) has to be set in the A-Link Plus program.

Select File - Communication Settings from the menu bar of the A-Link Plus program.



Figure 5.1: Selecting Communication Settings

The Communication Settings dialog opens.

Set the COM port assigned to the additional COM device (here COM4) as Direct Link
 Port.

Communication Setting	
Direct Link Port	
Local IP Address	10.172.150.160  Local Port 7700
Modem Port	COM1 -
Modem String	ATE0Q0B0
Modem Dial String	DT
Modem Answer String	A
Modem Disconnect String	HO
Carrier Loss Detection	200
Modem Register String	S2=43 S6=2 S7=100 S8=2 S9=2 S10=100 X0 M1
Error retries	20
	<u>Save</u> Quit

Figure 5.2: Communication Setting – Selecting the direct link port

### 5.5.5 Option: Creating a New Customer

If necessary, create a new customer.

- Select Customer New Customer from the menu bar.
  - The Customer Information index sheet opens.

🚳 A-Link Plus - ADMIN	
File View Customer User Help	
P & L #	
Customer Information Control Panal Configuration Link History Event	Customer Group My Customer Group Customer Number 0002 Customer Name New_Customer Customer Postcode Customer Contact Contact Phone Number Customer City Customer City Install Date 16.09.2014  Installer
Customer	Control Panel Phone Number Control Panel IP Address Control Panel IP Address Notepad

#### Figure 5.3: Customer Information – Creating a new customer

- 1. Enter the customer name in the **Customer Group** entry field to create a new customer.
- 2. Enter other relevant customer information. The **Customer Number** is mandatory.
- 3. Save and close.

### 5.5.6 Configuring the Control Panel

- 1. Select **Customer Open Customer** from the menu bar of the A-link Plus program. The **Customer Information** dialog opens.
- 2. Select the **Control Panel Configuration** index sheet.
- 3. Select the **Control Panel Type.**

Customer Information Control Panel Type Control Panel Configuration Link History Event Code namager Code namage	A-Link Plus - ADMIN <u>File View Customer User Help</u>						
Input       Telephone Number/IP Addre       Subscriber Number       Transmit Format       Antireplay       Acknow         1       000000       Contact ID       Enable       5         2       000000       Contact ID       Enable       5         3       000000       Contact ID       Enable       5         4       000000       Contact ID       Enable       5	Customer Information Control Panel Configuration Link History Event		Control Panel Type AMAX munication and Report manager (ecciver setting report setting terrot duration ual IP setting terrote Access -Link Plus Options iall back setting ormestic Telephone Number ing times e manager Iser code 1 - 16 define Iser code 1 - 16 define	<4000		Last Modify	Time 2014
Implementation     Finishing Control     Enable     5       2     000000     Contact ID     Enable     5       3     000000     Contact ID     Enable     5       4     000000     Contact ID     Enable     5       4     000000     Contact ID     Enable     5       4     000000     Contact ID     Enable     5			Telephone Number/IP Addre	Subscriber Number	Transmit Format		
1         000000         Contact ID         Enable         5           3         000000         Contact ID         Enable         5           4         000000         Contact ID         Enable         5		1	Coprono Humborri Addre	000000	Contact ID	Enable	5
A CONCOLO Contact ID Enable 5 4 000000 Contact ID Enable 5 4 00000 Contact ID Enable 5 4 000000 Contact ID Enable 5 4 00000 Contact ID Enable 5 4 000000 Contact ID Enable 5 4 00000		2		000000	Contact ID	Enable	5
4     000000     Contact ID     Enable     5		3		000000	Contact ID	Enable	5
		4		000000	Contact ID	Enable	5
					Image: Amage:		
		4		m			•

Figure 5.4: Control Panel Configuration - Selecting the control panel type

- 1. Select the item **Communication and Report manager Receiver setting** in the same index sheet.
- 2. Make sure that the value for subscriber number 1 is the same as currently programmed in AMAX panel as receiver 1.
- 3. The value is 000000, when the firmware of the AMAX panel was upgraded or when the AMAX panel has factory settings.

A-Link Plus - ADMIN     Eile <u>V</u> iew C <u>u</u> stomer <u>U</u> ser <u>H</u> elp					
Customer Information Control Panel Configuration Link History Event	Control Panel Type  Control Panel Type  Communication and Report man  Report setting  Report setting  Remote Access  A-Link Plus Options  Call back setting  Domestic Telephone Numb  Ring times  Code manager  User code 1 - 16 define	AMAX4000 nager	×	Last Modif	y Time 2014
	Input Telephone Number/IP A I 2 3 4	ddre   Subscriber Number 000000 000000 000000 000000	Transmit Format Contact ID Contact ID Contact ID Contact ID	) Table Anti-replay Enable Enable Enable Enable	O Locati 5 5 5 5 5 5
	•	Ш			•

#### Figure 5.5: AMAX panel configuration – subscriber number

- 1. Select the item **Code manager** in the same index sheet.
- 2. Make sure that the value for the parameter **Installer code** is the same as currently programmed in the AMAX panel.

The value is 1234, when firmware of the AMAX panel was upgraded or when the AMAX panel has factory settings.

A-Link Plus - ADMIN       File     View       Customer     User       Help			
Customer Information Control Panel Configuration Link History Event	Control Panel Type AMAX4000    ALink Plus Options  Call back setting  Domestic Telephone Number  Bind times  Code manager  Oser code 17 - 32 define  User code 17 - 32 define  User code 33 - 48 define  User code 47 - 64 define  User code 47 - 64 define  Code permissions  Code permissions	×	Last Modify Time 2014
	Parameter Name Installer code	Parameter Value xexesse	● Table O Locati

Figure 5.6: AMAX panel configuration - installer code

### 5.5.7 Establishing a Direct Connection

• Select the **Link** index sheet to establish a connection between the A-Link Plus program and the AMAX panel.



#### Figure 5.7: Link - Selecting Direct Connect

- 1. Select **Direct Connect** as communication model.
- 2. Click on the **Connect** button to connect to the AMAX panel.
- ✓ If the connection is successful, the status changes to **Connected** and the AMAX panel type and version is displayed.

# 5.6 Menu Programming

The following graphics show an overview of the programming menu structure displayed on a text keypad.

Menu Items	Parameters / Description	Certification	Default
1 COM+REPORT MANAG			
-RECEIVER SETTING			
INPUT RECEIVER No.			
FORMAT			1
— <u>1-Cid</u>			
TEL.No.(17 DIGIT)	Telephone No. = 17 Digits IP = 12 Dig. + Port = 5 Dig.</td <td></td> <td></td>		
SUBSCRIBER ID No.	0-9B-E		
— 2-sia dc03(pstn)			
TEL.No.(17 DIGIT)	Telephone No. = 17 Digits IP = 12 Dig. + Port = 5 Dig.</td <td></td> <td></td>		
SUBSCRIBER ID No.	0-9B-E		
- 3-conettix ip			
IP/PORT 17 DIGIT			
SUBSCRIBER ID No.	0-9B-E		
NETWORK ANTIREPLAY	U-disable 1-enable	EN=1	1
	05 09 socords		05
ACK WAIT TIME. Sec	00 - 99 Seconds		05
— <u>4-sia dc09</u>			
PROTOCOL TYPE	1-Cid		
DC09 ID No.1(16 D)			
LPREF(6 DIGIT)			
DC09 RRCFR ENABLE	0-disable 1-enable		
RRCFR(6 DIGIT)			
ACK WAIT TIME: sec	05 - 99 seconds		
5-sia dc09(2xid)			
PROTOCOL TYPE	1-Cid		
	2-sia dc03(pstn)		
IP/PORT 17 DIGIT			
DC09 ID No.1(16 D)			
L PREE(6 DIGIT)			
DC09 RRCFR ENABLE	0-disable 1-enable		
RRCFR(6 DIGIT)			
ACK WAIT TIME: sec	05 - 99 seconds		
- REPORT SETTING			
ZONE RESTORE REP.			0
AWAY ARM/DI REPORT		EN=1/5/6/7	6
STAY ARM/DI REPORT	0-no report	EN=1/5/6/7	6
AC FAULT AUTO RST	1-receiver 1		0
AC FAULT REP. DOME	2-receiver 2		0
SVS REP. WITH DOME		EN-1/5/0/7	0
PANIC ALARM REPORT	5-rec 1, 2, 3, 4		0
FIRE ALARM REPORT	-6-rec 1 (2,3,4 b)		0
MEDICAL AL. REPORT			0
AUTOM. TEST REPORT		EN=1/5/6/7	6
REPORT EXP. TIME:m	000 = No time limit 001 - 255 = 1 - 255 minutes	EN=0	0
RPIDEL. ENTRY T:S	2.0.5h	SSI,EN=30	30
FIRE 2BUITON AL			
	- 5-12h		
	6-24h		

Figure 5.8: Communications and Reporting Manager

Vienu ltems	Parameters / Description	Certification	Default
TEST REPORT DURAT. TEST RPT INTERV: h TEST REPORT: hour TEST REPORT: min	00 = Do not use timing report 01 - 99 = 1 - 99 hours 00 - 23 hours Others = Do not use real-time report 00 - 59 minutes Others = Do not use real-time report	EN=1-24	24 99 99
DUAL IP	0-1 ip module 1-2 ip modules		1
-REMOTE ACCESS			
-REM. ACCESS ARMED	0-disable 1-enable		1
-REMOTE PSTN ACCESS	0-disable 1-enable		1
-REMOTE IP ACCESS	0-disable 1-enable		1
RPC ACCESS CODE			
- RPC IP/ PORT/ POLL RPC IP ADDRESS RPC PORT 5 DIGIT!			
RPC POLL: 1-15h			15
	0-disable 1-enable		0
CALLBACK/DOMEST No DOMESTIC CALL DOMESTIC No (1-4) CHANGE DOM PHO. No			
CALLBACK PHONE No			
	<ul> <li>Panel does not answer</li> <li>13 = Number of rings until the control panel responds</li> <li>Call the control panel and allow the phone to ring more than twice and hang up. Wait a minimum of 8 sec ar call the control panel again. The control panel answers on the first ring.</li> <li>Call the control panel and allow the phone to ring more than four times and then hang up. If you call again</li> </ul>	no nd	14

Figure 5.9: Communications and Reporting Manager (continued)

Menu Items	Parameters / Description	Certification	Default
2 CODE MANAGER			
USER No.			
USER CODE PRIORITY	0-master 1 code 1-master 2 code 2-super code 3-basic code 4-arming code		2580
	5-duress code		
USER CODE IN AREA	0-not used		
USER MACRO AUTH			
CHANGE USER CODE			
EN EVENT HIST. LOG			
KEYFOB ID: MANUAL	press* 3s for AUTO. 9 Digits		
KEYFOB ID: AUTO	press* 3s for MANUAL. Trigger device, RFID will be entered		
			1234
CODE LENGTH			4
TAMPER RESET USER	0-disable 1-enable		1
ARM/DISARM INSTAL.	0-disable 1-enable		1

Figure 5.10: Code Manager

enu Items	Parameters / Description	Certification	Default
ZONE MANAGER			
-ADD/DELETE ZONES			
INPUT ZONE No.			
ZONE MODULE SEL.	0-on board zone		
	1-keypad zone		
	2-input mod. zone		
	3-RF all 4 BE BECB alasah		
	4-RF RFGD YIASSU. 5 DE DELIN no magn		
	6-not used		
ZONE FUNCTION			
ZONE IN AREA	00 = zone not used 01 - 16 = Area 1- 16		00
ZONE RFID: MANUAL	press* 3s for AUTO. 9 Digits		
-ZONE RFID: AUTO	press* 3s for MANUAL. Trigger device, RFID will	be entered	
-ZONE FUNCTION			
ZONE TYPE	00-not used		
	01-instant		
	02-interior inst.		
	03-delay 1		
	04-interior del.1		
	05-delay 1 exit		
	06-inter, del 1 e		
	07-delay 2 08 inter del 3		
	08-Inter, del 2		
	10 inter del 2 e		
	11-follower		
	12-inter followe		
	13-24 hour		
	14-key away toggi		
	15-key away on/of		
	16-key stay toggl		
	17-key stay on/of		
	18-24 hour panic		
	19-24 hour fire		
	20-24 h fire veri		
	21-tamper 22 belt contact		
	22-bolt contact		
	24-technical al		
	25-reset		
	26-instant report		
FORCE ARM/BYPASS	0-disabled		
	1-force arm	EN=0/2	3
	2-bypass	EN-0/2	5
	3-all		
SILENT AL./CHIME	U-disabled		
	r-silent alann 2 chime mode	EN=0/2	0
	2-chime mode		
ZONE PULSE COUNT	00 = disabled 01 - 09 Pulses	EN=0	0
	0-disabled		0
	1-1 time al. lock		~
	2-3 time al. lock	EN=U	0
	3-6 time al. lock		

Figure 5.11: Zone Manager

Menu Items	Parameters / Description	Certification	Default
ZONE EOL	0-eol 2,2k 1-deol 2,2k/2,2k 2-reserve 3-nc 4-no		1
ZONE STATUS REPORT	0-no report 1-receiver 1 2-receiver 2 3-receiver 3 4-receiver 4 5-rec 1, 2, 3, 4 6-rec 1 (2,3,4 b) 7-rec 1.3 (2,4 b)	EN=1/5/6/7	6
UNVERF.REP/CROS.ZN	0-disabled 1-unverified alar 2-cross zone 3-all	EN=0	0
ZONE DOMESTIC CALL	0-no report 1-destination 1 2-destination 2 3-destination 3 4-destination 4 5-dest. 1,2,3,4 6-dest 1 /2,3,4 b 7-dest 1,3 /2,4 b		0
DETECT. T. x100ms			3
	000 = disabled 1 - 999 sec = Duration	EN=0	60
			60

Figure 5.12: Zone Manager (continued)

Menu Items	Parameters / Description	Certification	Default
4 KP/AREA MANAGER			
KEYPAD AREA INPUT KEYPAD No. KEYPAD IN AREA ENTRY/EXIT TIMING INPUT AREA No. EXIT DELAY: sec	01 - 16 00 = Master 99 = not used		45
ENTRY DELAY 1: sec ENTRY DELAY 2: sec		EN=45	30
COMMON AREA	00-none 01-follow area 2 02-follow ar 2-3 03-follow ar 2-4 04-follow ar 2-5 06-follow ar 2-7 07-follow ar 2-8 08-follow ar 2-9 09-follow ar 2-10 10-follow ar 2-11 11-follow ar 2-12 12-follow ar 2-13 13-follow ar 2-15 15-follow ar 2-16		0
	Odiachla 1 anabla		4
AUDIB ENTRY ENABLE STAY ZONE AL INDIC	0-disable 1-enable 0-disable 1-enable 0-disable 1-enable		0
KEYPAD LOCKOUT		EN=10	1

Figure 5.13: Keypad and Area Manager

Menu Items	Parameters / Description	Certification	Default
5 SYSTEM MANAGER			
FAULT SOUND REMIND	0-disable 1-enable		1
AC FAULT DELAY T.	0-98 min 99=disable		60
DATE / TIME FAULT	0-disable 1-enable	EN=1	0
BATT. CHK INTERVAL	00 = disabled 01 - 15 minutes	EN=15	15
PHO. LN SUPERVISED	0-disable 1-enable	EN=1	0
SIREN SUPERVISED	0-disabled		
	1-po-1 enabled		0
	2-po-2 enabled	EIN-3	0
	3-po-1+2 enabled		
QUICK ARM ONLY */#	0-disable 1-enable	EN=0	1
	0-disable 1-enable		0
-SYSTEM SETTING 2			
FORCE ARM FAULT/TA	0-disable 1-enable	EN=0	1
- EVENT RECORD COUNT	3 - 10 Record count of same event per armed period	EN=3-10	10
	1-FN 6-PI		
	2-DE 4-FR 5-PT 7NL		
	1-EN 3-ES 6-PL 8SE		
KP 2 BUTTON ALARM	0-disable 1-enable	EN=0	1
			<u> </u>
SYS TAMPER INDIC.	$0 = \operatorname{area1}_{1 = 0} 1 = \operatorname{all}_{2 = 0}$		
DEOL TAMP. ALL AK.	0 = area     = all areas		
ENCL TAMP TIMING			2
ENCL TAMP. TIMING	1 - 9999 X 100IIIS		
AREA NAME			
COMPANY NAME			
	DEFAULT VOICE YES		
	DEFAULT VOICE NO		
SYSTEM VIEW			
- FAULT ANALYSIS			
FW VERSION			
	DEFAULT PANEL YES		
	DEFAULT PANEL NO		

Figure 5.14: System Manager

lenu Items	Parameters / Description	Certification	Default
OUTPUT MANAGER			
ENTER OUTPUT No.			
OUTPUT EVENT TYPE	00-not used		
	01-syst. disarmed		
	02-system armed		
	03-sys al audible		
	04-sys alarm all		
	05-ext.away siren		
	06-ext.stay siren		
	07-int. siren		
	08-int. sir w.tmp		
	09-entry/exit del		
	10-tel.line fault		
	11-mains fault		
	12-battery fault		
	13-tamper		
	14-ext. fault		
	15-all faults		
	10-lire alarm		
	17-IIIe reset		
	10-away anneu		
	19-stay anneu 20 reget		
	20-lesel 21 follow zn even		
	22 PE kf button 3		
	23-RF kf button 4		
	24-chime indic		
	25-verified alarm		
	26-unverif alarm		
	27-technic alarm		
	28-bypassed zone		
	29-ready to arm		
	30-walk test		
	31-24 hour alarm		
	32-panic alarm		
	33-medical alarm		
	34-RF power fault		
	34-RF power fault		
	35-follow zone		
	36-schedule		
OUTPUT AREA / ZONE	00 = all/any Area/s 01–16 Area 1-16		
OUTPUT MODE	0-continuous		
	1-pulse		0
	2-continuous inv Master Timer for Outputs		000
			000
- SIREN SETTINGS	Maatar Timor for Outputs		
			00
			1
			1

Figure 5.15: Output Manager

Menu Items	Parameters / Description	Certification	Default
7 RF MANAGER			
-RF RECEIVER	0-disable 1-enable		0
RF SUPERVISION	0-disable 1-20min 2-1h 3-2,5h 4-4h 5-12h 6-24h	EN=1	1
RF JAM DETECT LEV.	0 - 15 0 = most sensitive		12
RF LOW BATT REPEA	T 0-disabled 1-4h 2-24h		1
SIREN BEEP ARM/DIS	0-disable 1-enable		1
RF KEYFOB PANIC AL	1-silent alarm 2-audible alarm		2
RF ZN MISSING = AL	0-disable 1-enable	EN=0	1
REPEATER ID: AUTO	press* 3s for AUTO. 9 Digits UAL press* 3s for MANUAL. Trigger device, RFID will I	be entered	
RF SENSOR DIAGNOS RF ZONE No:	E		
REPEATER DIAGN.			
	CLEAR CONFIRM CLEAR CANCEL		

Figure 5.16: RF Manager

Menu Items	Parameters / Description	Certification	Default
8 ADDR./KEY PROGR.			
-ADDRESS PROGRAM	For Addresses, refer to Installation Guide		
COPY DATA TO PANEL	copy data from blue programming key to Panel		
	copy data from Panel to blue programming key		

Figure 5.17: Address and Key Programming

# 6

# **Technical Data**

Panel	AMAX2100	AMAX3000	AMAX4000		
Enclosure:					
Dimensions (HxWxD):	260 x 280 x 83.5mm (L	375 x 322 x 88 mm(L x W x H)			
Weight:	1950g		4700g		
Environmental Cons	siderations:				
Relative Humidity:	10% - 95%				
Operating Temperature:	-10°C - +55°C				
Ingress protection rating:	IP 30				
Security level:	IK 06				
Supervised Zones:					
Onboard:					
Z1:	Single or dual end-of-line (EOL 2,2KΩ) NC, NO		2 wire fire zone, Single, or dual end-of-line (EOL 2,2KΩ) NC, NO		
Z2 - Z16 COM:	7 Single or dual end-of-line (EOL 2,2K $\Omega$ ) NC, NO		15 Single or dual end-of-line (EOL 2,2KΩ) NC, NO		
Tamper:	Enclosure tamper input (does not reduce point capacity)				
Outputs (PO):	Outputs (PO):				
Programmable Onbo	pard:				
PO -1 / PO -2:	supervised output a ma	aximum of 500mA			
PO -3:	max 100mA				
PO +3 / PO +4:			+12V / max 750mA		
Watchdog PO -5:			max 100mA		
Number of					
Zones:	8	16	32		
Users:	64	128	250		
Key Fob Users:		DSRF = 24, Radion	= 128		
Events:	256 history events, stamped with time, and date 256EN history events, stamped with time, and date 256 dialer history events, stamped with time, and date				

Pin Code variations:	1000000			
Keypads:	4	8	16	
DX 3010:	1	2	2	
B 426, or DX 4020, or DX4020G (only 1):	2			
DX2010:		3	6	
DX 4010:	1			
RF Receiver:		1		
RF Repeater:		DSRF = 0, Radion =	8	
RF Sensors:		32	64	
RF Keyfobs:		DSRF = 24, Radion	= 128	
Power:	1	1		
Power Supply Type:	EN = A			
Transformer:	230V Input/18VAC 20VA Fuse = 500mA		230V Input/18VAC 50VA Fuse = 1A	
AC Input:	AC Input Voltage: 195 VAC to 253 VAC Line Voltage Frequency: 50 Hz			
DC Output:	max current for all con	max current for all components 2000mA		
	<ul> <li>max current for al Batt 80% in 72h)</li> <li>max current for al alarm current 500</li> </ul>	l components Batter = 550mA l components Batter mA (recharge Batt 8	ry 7Ah standby 12h (recharge ry 7Ah standby 36h + 15min 10% in 72h) = 150mA	
			<ul> <li>max current for all components battery 18 Ah standby 12h (recharge Batt 80% in 72h) = 1500mA</li> <li>max current for all components Battery 18Ah standby 36h (recharge Batt 80% in 24h) = 480mA</li> <li>max current for all components Battery 18Ah standby 36h + 15min alarm current 1000mA (recharge Batt 80% in 24h) = 400mA</li> </ul>	

Aux 1 / 2 (+12V/ GND) Output:	<ul> <li>Nominal Output Voltage under AC line input: 13,8 VDC +3% / -5%</li> <li>Vpp (max) 675mV</li> </ul>			
	<ul> <li>Output Voltage Range under AC line input: 12.82 VDC to 13.9 VDC</li> <li>max 500mA</li> </ul>			<ul> <li>Output Voltage Range under AC line input: 13.11 VDC to 14.2 VDC</li> <li>max 900mA</li> </ul>
Option Bus:				
Cable requirements for busses:	four wire, 0,6 to 1,2 mm Ø max length 200m (Panel to last KP) max bus length 700m (max 14 devices, max 8 KPs)			
Option busses common data:	<ul><li>Nominal 0</li><li>Output Vo</li></ul>	Dutput Voltag oltage Range	ge under AC line under AC line i	e input: 13,8 VDC +3% / -5% nput: 13.11 VDC to 14.2 VDC
Option Bus 1:	max 500mA			max 900mA
Option Bus 2:				max 900mA
Panel PCB:	Quiescent cur	rent max 100	Quiescent current max 100mA	
Battery:	12V/7 Ah, lead acid rechargeable 18Ah Low battery condition is below 11,0 VDC Minimum battery condition is 10,8VDC			
Certification:	Europe CE EN 50130-4 (6/2011) EN 55022 (5/2008) EN 60950-1:2006 + A11:2009		6/2011) 2008) 206 + A11:2009	
		EN	EN 50131-3 gi Environmenta	rade 2 I Class 2
	France	AFNOR	NF a2P 12234 Environmenta	00001A0 I Class 1
	Germany	VDS	Home	
Keypads:				
IUI-AMAX4-TEXT (L	.CD Text Keypa	d)		
Relative Humidity:	10% - 95%			
Operating Temperature:	-10°C - +55°C			
Input Voltage range:	10.8VDC - 13.8VDC			
Current Consumption:	standby 31mA max 100mA			
Ingress protection rating:	IP 30			
Security level:	IK 06			

Certification:	Europe	CE	EN 50130-4 (6/2011) EN 55022 (5/2008) EN 60950-1:2006 + A11:2009
		EN	EN 50131-3 grade 2 Environmental Class 2
	France	AFNOR	NF a2P 1223400001A0 Environmental Class 1
	Germany	VDS	Home
IUI-AMAX3-LED16 (	(16 Zone LED Ke	eypad)	
Relative Humidity:	10%-95%		
Operating Temperature:	-10°C - +55°C		
Input Voltage range:	10.8VDC - 13.8	VDC	
Current Consumption:	standby 31mA max 60mA		
Ingress protection rating:	IP 30		
Security level:	IK 06		
Certification:	Europe	CE	EN 50130-4 (6/2011) EN 55022 (5/2008) EN 60950-1:2006 + A11:2009
		EN	EN 50131-3 grade 2 Environmental Class 2
	France	AFNOR	NF a2P 1223400001A0 Environmental Class 1
	Germany	VDS	Home
IUI-AMAX3-LED8 (8	Zone LED Key	oad)	
Relative Humidity:	10%-95%		
Operating Temperature:	-10°C - +55°C		
Input Voltage range:	12V normal		
Current Consumption:	standby 31mA max 60mA		
EN type:	EN = B, IK = 06	, IP = 30	
Certification:	Europe	CE	EN 50130-4 (6/2011) EN 55022 (5/2008) EN 60950-1:2006 + A11:2009

	EN	EN 50131-3 grade 2 Environmental Class 2
France	AFNOR	NF a2P 1223400001A0 Environmental Class 1
Germany	VDS	Home

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