AMAX panel

AMAX panel 2100 | AMAX panel 3000 | AMAX panel 3000 BE | AMAX panel 4000

en Quick Installation Guide

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1 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.

- Make sure that all power (AC and battery) is switched off during the installation and wiring process.
- Only open or modify the system accordingly to this manual.
- Only qualified installers/service personnel are allowed to install this system.
- 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 to connect the system to a socket-outlet with a protective grounding contact.

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 or altering 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.

2 Short information

This manual contains information on how to get the system into operation easily and quickly. The manual 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.

- For detailed information on installation of modules and devices, advanced settings and programming, refer to the AMAX Installation Manual.
- For information on operating the AMAX panel, refer to the AMAX Operation Manual.

3 System overview

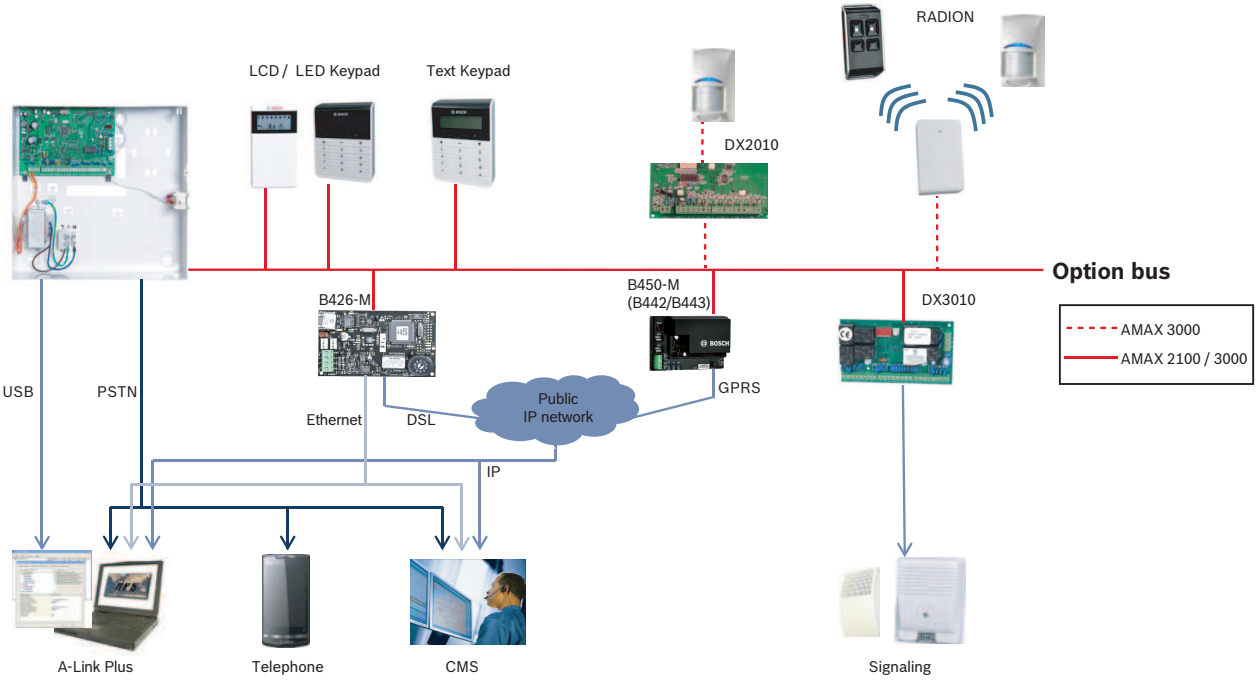

Figure 3.1: AMAX 2100 / 3000 overview

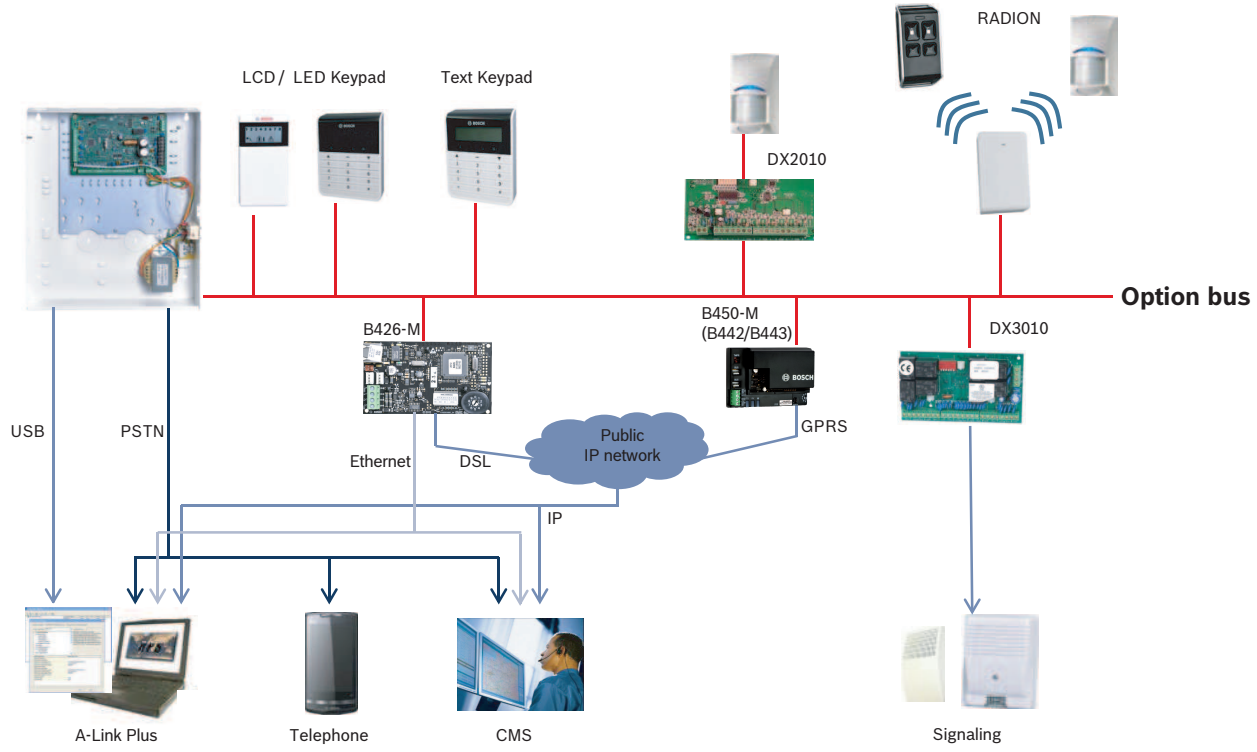

Figure 3.2: AMAX 3000 BE / 4000 overview

Wiring diagrams

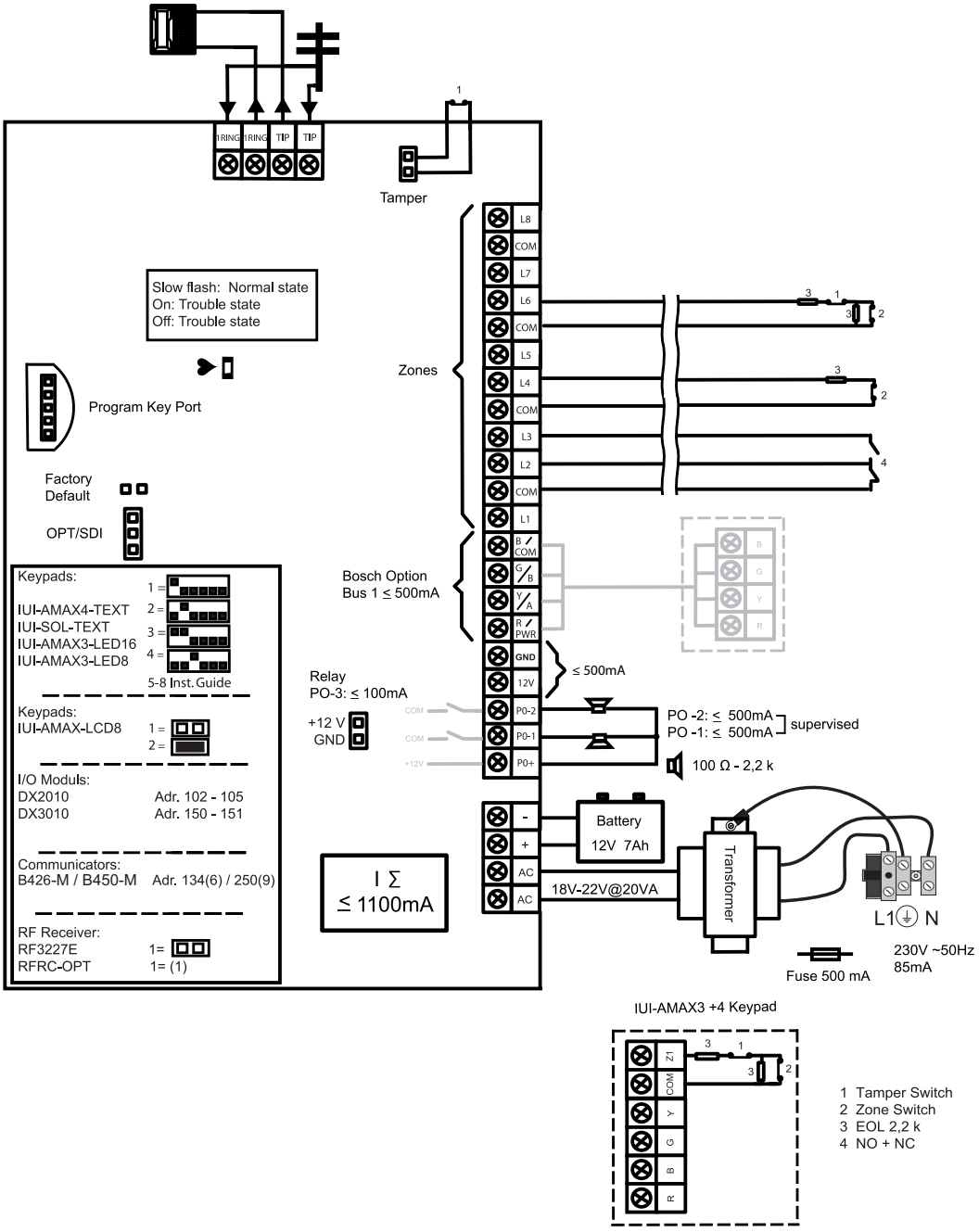

Figure 3.3: Wiring diagram AMAX 2100 / 3000

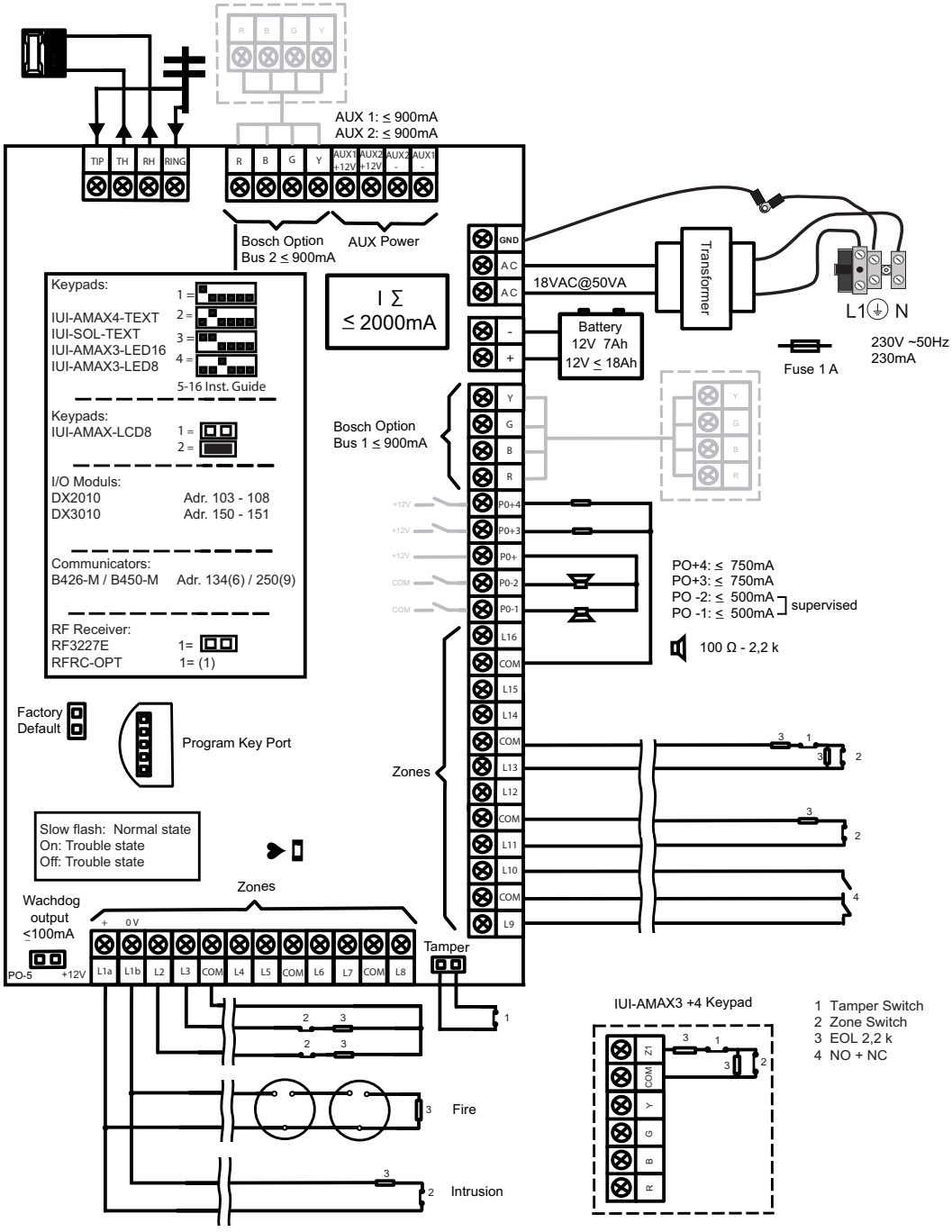

Figure 3.4: Wiring diagram AMAX 3000 BE / 4000

4 Connecting Modules and Devices

The AMAX panel provides Bosch option bus 1 and option bus 2 (only for AMAX 3000 BE and 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 2100	AMAX 3000 / 3000 BE	AMAX 4000
Keypads	4	8	16
DX2010	-	3	6
DX3010	1	2	2
B426-M	2 or 1 if B450-M with B442 or B443 is used		
B450-M + B442 GPRS	1	1	1
RF receiver	-	1	1

Tab. 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 *System overview, page 7*).
2. Connect the RFRC-OPT RADION receiver to the option bus on the AMAX panel according to the wiring diagram (refer to *System overview, page 7*).
3. Connect the red and black wires supplied with the battery to the AMAX panel and the battery.
4. Connect the power adapter to the mains.

5 Programming and operating the AMAX panel

The AMAX panel is programmed and operated through the installer or the user menu on a keypad and/or through the remote programming software A-Link Plus on a PC.
When all modules and devices are installed, the AMAX panel indicates the system status through the LED status indicator on the mainboard. 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] for master user 1 / [2581] for master user 2

5.1 Option: Changing Menu Language

If necessary, the menu language can be changed. If not, proceed to section *Accessing the Menus, page 11*.

1. Enter the installer code [1234] + [58] or the user code [2580] / [2581] + [58] and press [#].
   The available menu languages are displayed.
2. Select the desired language on the keypad.
3. Press [#].

✓ The menu language is changed.

5.2 Accessing the Menus

Accessing the programming menu

1. Confirm that the system is disarmed and that no alarm occurred.
2. Enter the installer code. The default setting for the installer code is [1234].
   The system displays **[958] PROGR. MODE [-EXIT]**.
3. Enter [958] + press [#].

✓ 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 a user code. The default users are master user 1 (code: [2580]) and master user 2 (code: [2581]).

✓ The system displays **[▼/▲] USER MENU *STAY #AWAY [-] INFO**.
✓ 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

1. 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 panel with a text keypad

5.4.1 Installer menu

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

Menu Items	Parameters / Description	Certification	Default
1 COM+REPORT MANAG			
RECEIVER SETTING			
INPUT RECEIVER No.			
FORMAT			1
1-Cid			
TEL.No.(17 DIGIT)	Telephone No. </= 17 Digits IP = 12 Dig. + Port = 5 Dig.		
SUBSCRIBER ID No.	0 - 9 B - E		000000
2-sia dc03			
TEL.No.(17 DIGIT)	Telephone No. </= 17 Digits IP = 12 Dig. + Port = 5 Dig.		
SUBSCRIBER ID No.	0 - 9 B - E		000000
3-conettix ip			
IP/PORT 17 DIGIT			
SUBSCRIBER ID No.	0 - 9 B - E		000000
NETWORK ANTIREPLAY	0-disable 1-enable	EN=1	1
NETW. POLLING: min			1
ACK WAIT TIME: sec	05 - 99 seconds		05
4-sia dc09			
PROTOCOL TYPE	1-Cid 2-sia dc03		1
IP/PORT 17 DIGIT			
DC09 ID No.1(3-16)			
LPREF(6 DIGIT)			000000
DC09 RRCVR ENABLE	0-disable 1-enable		0
RRCVR(6 DIGIT)			000001
TCP/UDP TRANSMIT	0-tcp 1-udp		0
DC09 ENCRYPT. OPT.	0-disable 1-128 bits key 2-192 bits key 3-256 bits key		0
DC09 ENCRYPT. KEY			0
SET TIME ZONE	0=-12:00, 1=-11:00, 2=-10:00, 3=-9:00, 4=-8:00, 5=-7:00, 6=-6:00, 7=-5:00, 8=-4:30, 9=-4:00, 10=-3:30, 11=-3:00, 12=-2:00, 13=-1:00, 14=+0:00, 15=+1:00, 16=+2:00, 17=+3:00, 18=+3:30, 19=+4:00, 20=+4:30, 21=+5:00, 22=+5:30, 23=+5:45, 24=+6:00, 25=+6:30, 26=+7:00, 27=+8:00, 28=+8:30, 29=+9:00, 30=+9:30, 31=+10:00, 32=+11:00, 33=+12:00, 34=+13:00, 35=+14:00		15
LOCAL TIME SYNC EN	0-disable 1-enable		0
NETW. POLLING: min			1
ACK WAIT TIME: sec	05 - 99 seconds		5
5-sia dc09(2xid)			
PROTOCOL TYPE	1-Cid 2-sia dc03		1
IP/PORT 17 DIGIT			
DC09 ID No.1(3-16)			
DC09 ID No.2(3-16)			
LPREF(6 DIGIT)			000000
DC09 RRCVR ENABLE	0-disable 1-enable		0
RRCVR(6 DIGIT)			000001
TCP/UDP TRANSMIT	0-tcp 1-udp		0
DC09 ENCRYPT. OPT.	0-disable 1-128 bits key 2-192 bits key 3-256 bits key		0
DC09 ENCRYPT. KEY			0
SET TIME ZONE	0=-12:00, 1=-11:00, 2=-10:00, 3=-9:00, 4=-8:00, 5=-7:00, 6=-6:00, 7=-5:00, 8=-4:30, 9=-4:00, 10=-3:30, 11=-3:00, 12=-2:00, 13=-1:00, 14=+0:00, 15=+1:00, 16=+2:00, 17=+3:00, 18=+3:30, 19=+4:00, 20=+4:30, 21=+5:00, 22=+5:30, 23=+5:45, 24=+6:00, 25=+6:30, 26=+7:00, 27=+8:00, 28=+8:30, 29=+9:00, 30=+9:30, 31=+10:00, 32=+11:00, 33=+12:00, 34=+13:00, 35=+14:00		15
LOCAL TIME SYNC EN	0-disable 1-enable		0
NETW. POLLING: min			1
ACK WAIT TIME: sec	05 - 99 seconds		5

Figure 5.1: Communications and Reporting Manager

Menu Items	Parameters / Description	Certification	Default
REPORT SETTING			
ZONE RESTORE REP.	0-no report		6
AWAY ARM/DI REPORT	1-receiver 1	EN=1/5/6/7	6
STAY ARM/DI REPORT	2-receiver 2	EN=1/5/6/7	6
AC FAULT REP. REC.	3-receiver 3		6
AC FAULT REP. DOME	4-receiver 4		0
SYSTEM STATUS REP.	5-rec 1, 2, 3, 4	EN=1/5/6/7	6
SYS REP. WITH DOME	6-rec 1 (2,3,4 b)		0
PANIC ALARM REPORT	7-rec 1,3 (2,4 b)		0
FIRE ALARM REPORT	8-rec 1, 2		0
MEDICAL AL. REPORT	9-rec 1 (2 b)		0
AUTOM. TEST REPORT	10-rec 3, 4 11-rec 3 (4 b)	EN=1/5/6/7	6
REPORT EXP. TIME:m	000 = No time limit 001 - 255 = 1 - 255 minutes	EN=0	0
RPT DEL. ENTRY T:s		SSI,EN=30	30
PANIC 2BUTTON AL	0-disabled		1
FIRE 2BUTTON AL	1-report		1
MEDICAL 2BUTTON AL	2-siren		1
	3-all		
TEST REPORT DURAT.			
TEST RPT INTERV: h	0-disable	EN=1-8	8
	1-1 hour		
	2-2 hours		
	3-3 hours		
	4-4 hours		
	5-6 hours		
	6-8 hours		
	7-12 hours		
	8-24 hour		
TEST REPORT: hour	00 - 23 hours Others = Do not use real-time report		99
TEST REPORT: min	00 - 59 minutes Others = Do not use real-time report		99
DUAL IP	0-1 ip module 1-2 ip modules		1
IP COMMUNICATOR			
INPUT MODULE No.	1,2		
IPV6 MODE	0-disable 1-enable		0
IPV4 DHCP	0-disable 1-enable		1
IPV4 ADDRESS	0.0.0.0 - 255.255.255.255		0
IPV4 SUBNET MASK	0.0.0.0 - 255.255.255.255		255.255.255.0
IPV4 DFLT GATEWAY	0.0.0.0 - 255.255.255.255		0
IPV4 DNS SERVER IP	0.0.0.0 - 255.255.255.255		0
IPV6 DNS SERVER IP	0000:0000:0000:0000:0000:0000:0000:0000 - FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF		0
UPNP ENABLE	0-disable 1-enable		1
HTTP PORT NUMBER	1-65535		00080
ARP CA TIME(SEC)	1-600 (seconds)		600
WEB/USB ACCESS	0-disable 1-enable		0
WEB/USB PWD	4-10 ASCII printable characters in length		B42V2
FIRMWARE UPGRADE	0-disable 1-enable		0
MODULE HOSTNAME	Up to sixty-three characters (letters, numbers, and dashes)		
UNIT DESCRIP.	Up to twenty ASCII printable characters		
TCP/UDP PORT NUM	1-65535		07700
TCP KEEP AL.(SEC)	0-65 (seconds)		45
ALT IPV4 DNS SERVR	0.0.0.0 - 255.255.255.255		0
ALT IPV6 DNS SERVR	0000:0000:0000:0000:0000:0000:0000:0000 - FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF		0
AES ENCRYPTION	0-disable 1-enable		0
AES KEY SIZE	1-128 bits, 2-192 bits, 3-256 bits		1
AES KEY STRING	32 or 48 or 64 hexadecimals characters		
CLOUD CONNECTION	0-disable 1-enable		0
CONFIG B450 ?	Only display for module 1, two options for this item: "NO, RETURN", "YES, CONTINUE"		
SIM PIN	4-8 numbers		
NET. ACC. P NA	0-99 ASCII printable characters		
NET. P USR NA	0-99 ASCII printable characters		
NET. ACC. P PWD	0-99 ASCII printable characters		

Figure 5.2: Communications and Reporting Manager (continued)

Menu Items	Parameters / Description	Certification	Default
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		0
RPC ACCESS CODE			0000000000
RPC IP/ PORT/ POLL			
RPC IP ADDRESS			
RPC PORT 5 DIGIT!			
RPC POLL: 1-15h			15
CALLBACK/ DOMESTIC			
CALLBACK SETTING	0-disable 1-enable		0
CALLBACK/DOMEST No			
DOMESTIC CALL			
DOMESTIC No (1-4)			
CHANGE DOM PHO. No			
CALLBACK PHONE No			
RING TIMES	0 = The panel does not answer any incoming calls. 1 – 13 = Number of rings until the control panel answers. 14 = The control panel is called, the phone is allowed to ring only twice and hangs up. After 8 to 45 seconds the control panel is called again and answers to the first ring. If the control panel is called before 8 seconds have passed, it does not answer the call. 15 = The control panel is called, the phone is allowed to ring only four times and hangs up. Within 45 seconds the control panel is called again, it answers to the first ring and the connection is established. This prevents the answering machine or fax machine from answering the call.		14
CLOUD STATUS			
CLOUD STATUS MOD1			
CLOUD STATUS MOD2			
UID MOD1:			
UID MOD2:			

Figure 5.3: Communications and Reporting Manager (continued)

Menu Items	Parameters / Description	Certification	Default
2 CODE MANAGER			
USER CODE			
USER No.			
USER CODE PRIORITY	0-master 1 code 1-master 2 code 2-super code 3-basic code 4-arming code 5-duress code 6-not used		2580 2581
USER CODE IN AREA			
USER MACRO AUTH.			
CHANGE USER CODE			
KEYFOB ID: MANUAL	press* 3s for AUTO. 9 Digits		
KEYFOB ID: AUTO	press* 3s for MANUAL. Trigger device, RFID will be entered		
KEYFOB BUTTON3			
	0-not used 1-output control 2-stay arm		
INSTALLER CODE			1234
CODE LENGTH			4
CODE PERMISSIONS			
TAMPER RESET USER	0-disable 1-enable		1
ARM/DISARM INSTAL.	0-disable 1-enable		1
DATE/TIME MASTER U	0-disable 1-enable		1
FORCE CODE CHANGE	0-disable 1-enable	EN=0	0
MACRO CONFIG			1
INPUT MACRO (1-3)			
LEVEL 1 ACCESS	0-disable 1-enable		0
REC T.OUT:1-80sec			60
PAUSE T:100ms 1-15			03
CODE INSIDE MACRO	0-disable 1-enable		1

Figure 5.4: Code Manager

Menu Items	Parameters / Description	Certification	Default
3 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-RF RFGB glassb. 5-RF RFUN no magn 6-not used		
ZONE FUNCTION			
ZONE IN AREA	00 = zone not used 01 - 16 = Area 1- 16		00
ZONE NAME INPUT			
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 FUNCTION No.			
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 2 09-delay 2 exit 10-inter. del 2 e 11-follower 12-inter. followe 13-24 hour 14-key away toggl 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-bolt contact 23-external fault 24-technical al. 25-reset 26-instant report		
FORCE ARM/BYPASS	0-disabled 1-force arm 2-bypass 3-all	EN=0/2	3
SILENT AL./CHIME	0-disabled 1-silent alarm 2-chime mode 3-all	EN=0/2	0
ZONE PULSE COUNT	00 = disabled 01 - 09 Pulses	EN=0	0
ZONE LOCKOUT	0-disabled 1-1 time al. lock 2-3 time al. lock 3-6 time al. lock 4-alarm duration	EN=0	0

Figure 5.5: 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) 8-rec 1, 2 9-rec 1 (2 b) 10-rec 3, 4 11-rec 3 (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 8-dest. 1,2 9-dest 1 /2 b 10-dest. 3,4 11-dest 3 /4 b		0
ZONE ALARM ON KP	0-disable 1-enable		0
TROUBLE DOM EN	0-disable 1-enable		1
DETECT. T. x100ms			3
PULSE COUNT DURAT.	000 = disabled 1 - 999 sec = Duration	EN=0	60
CROSS ZONE TIMER			60

Figure 5.6: Zone Manager (continued)

Menu Items	Parameters / Description	Certification	Default
4 KP/AREA MANAGER			
KEYPAD AREA			
INPUT KEYPAD No.			
KEYPAD IN AREA	01 - 16 00 = Master 99 = not used		
ENTRY/EXIT TIMING			
INPUT AREA No.			
EXIT DELAY: sec			45
ENTRY DELAY 1: sec		EN=45	30
ENTRY DELAY 2: sec			30
AUDIBLE: MUL SEL *	entry time(stay)		yes
	exit time(stay)		yes
	ent time(sty) mst		yes
	exit tim(sty) mst		yes
	entry time(away)		yes
	exit time(away)		yes
	ent time(awy) mst		yes
	exit tim(awy) mst		yes
COMMON AREA	00-none 01-follow area 2 02-follow ar 2-3 03-follow ar 2-4 04-follow ar 2-5 05-follow ar 2-6 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 2-14 14-follow ar 2-15 15-follow ar 2-16		0
KEYPAD INDICATION			
KEYPAD ALARM TONE	0-disable 1-enable		1
ALARM INDIC ENABLE	0-disable 1-stay arm 2-away arm 3-both arm	EN=0/1	3
BACKL. ON ENTRY T.	0-disable 1-enable		1
KP LED EXP.: sec	01-99 sec, 00=always on		0
MASTER KP LED ON	0-disable 1-1st area on 2-1st area flash 3-all area on 4-1st area on ex 5-1st area flh ex 6-all area on ex		2
MASTER KP AL TON	0-disable 1-enable		1
MASTER KP RES: sec	00-99, 00=always		60
KEYPAD LOCKOUT			
FOLLOW EN STANDARD	0-disable 1-enable	EN=1?	0
KEYPAD LOCK COUNT	0-15, only valid when "FOLLOW EN STANDARD" is disabled	EN=10?	10

Figure 5.7: Keypad and Area Manager

Menu Items	Parameters / Description	Certification	Default
5 SYSTEM MANAGER			
SYSTEM SETTING 1			
DATE/TIME			
CHANGE DATE / TIME			
DST OPTIONS			0
0-disable			
1-euro			
2-brazil			
3-mexico			
4-us nor mexico			
5-customize	permanent start/stop at 1 am		
START DST			
MONTH	1=January,2=February,3=March,4=April,5=May,6=June,7=July 8=August,9=September,10=October,11=November,12=December		
ORDINAL	1=1st,2=2nd,3=3rd,4=4th,5=last		
WEEK DAY	1=Monday,2=Tuesday,3=Wednesday,4=Thursday,5=Friday 6=Saturday,7=Sunday		
STOP DST			
MONTH	1=January,2=February,3=March,4=April,5=May,6=June,7=July 8=August,9=September,10=October,11=November,12=December		
ORDINAL	1=1st,2=2nd,3=3rd,4=4th,5=last		
WEEK DAY	1=Monday,2=Tuesday,3=Wednesday,4=Thursday,5=Friday 6=Saturday,7=Sunday		
FAULT CONFIG			
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	1
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 2-po-2 enabled 3-po-1+2 enabled	EN=3	0
QUICK ARM ONLY */#	0-disable 1-enable	EN=0	1
INSTALLER ACCESS	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
LANGUAGE VERSION	1-EN 6-PL 9TR 10HU 2-DE 4-FR 5-PT 7NL 1-EN 3-ES 6-PL 8SE 1-EN 3-ES 4-FR 5PT 11-IT 12-EL		
KP 2 BUTTON ALARM	0-disable 1-enable	EN=0	1
SYS TAMPER INDIC.			
SYS TAMP. ALL AR.	0 = area1 1 = all areas		
DEOL TAMP. BYPASS	0-disable 1-enable		
ENCL TAMP. TIMING	1 - 9999 x100ms	EN=?	3
AREA NAME			
INPUT AREA No.			
AREA NAME			
COMPANY NAME			
VOICE MEM. DEFAULT	DEFAULT VOICE YES DEFAULT VOICE NO		
SYSTEM VIEW			
FAULT ANALYSIS			
FW VERSION			
FACTORY DEFAULT	DEFAULT PANEL YES DEFAULT PANEL NO		
PAD DEFAULT OPTION	0-disable 1-enable		1

Figure 5.8: System Manager

Menu Items	Parameters / Description	Certification	Default
6 OUTPUT MANAGER			
OUTPUT SETTINGS			
ENTER OUTPUT No.			
OUTPUT EVENT TYPE1	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 16-fire alarm 17-fire reset 18-away armed 19-stay armed 20-reset 21-follow zn even 22-RF 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 35-follow zone 36-schedule		5
OUTPUT AREA/ZONE 1	00 = all/any Area/s 01–16 Area 1-16		
OUTPUT MODE 1	0-continuous 1-pulse 2-continuous inv		
OUTPUT TIME 1: sec	Master Timer for Outputs		
OUTPUT EVENT TYPE2	see OUTPUT EVENT TYPE1		0
OUTPUT AREA/ZONE 2	00 = all/any Area/s 01–16 Area 1-16		0
OUTPUT MODE 2	0-continuous 1-pulse 2-continuous inv		0
OUTPUT TIME 2: sec	Master Timer for Outputs		0
OUTPUT EVENT TYPE3	see OUTPUT EVENT TYPE1		0
OUTPUT AREA/ZONE 3	00 = all/any Area/s 01–16 Area 1-16		0
OUTPUT MODE 3	0-continuous 1-pulse 2-continuous inv		0
OUTPUT TIME3: sec	Master Timer for Outputs		000
SIREN SETTINGS			
SIREN TIME: min	Master Timer for Outputs		00
SIREN BEEP ENABLE	0-disable 1-enable		1
INT SIREN INDIC ON	0-disable 1-enable		1
SIREN OFF ANY KEY	0-disable 1-enable		1

Figure 5.9: Output Manager

Menu Items	Parameters / Description	Certification	Default
7 RF MANAGER			
RF SETTINGS			
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	4
RF JAM DETECT LEV.	00 - 15 00 = disable, 01 = most sensitive		12
RF LOW BATT REPEAT	0-disabled 1-4h 2-24h		2
SIREN BEEP ARM/DIS	0-disable 1-enable		1
RF KEYFOB PANIC AL	0-no alarm 1-silent alarm 2-audible alarm		2
RF ZN MISSING = AL	0-disable 1-enable	EN=0	1
RF DEVICES / USER			
RF REPEATER			
REPEATER No: 1-8			
REPEATER ID: AUTO	press* 3s for AUTO. 9 Digits		
REPEATERID: MANUAL	press* 3s for MANUAL. Trigger device, RFID will be entered		
RF SENSOR DIAGNOSE			
RF ZONE No:			
RF REPEATER DIAGN.			
REPEATER No: 1-8			
CLR ALL RF DEVICES	CLEAR CONFIRM CLEAR CANCEL		

Figure 5.10: 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 TO KEY	copy data from Panel to blue programming key		

Figure 5.11: Address and Key Programming

5.4.2 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 save the data end exit the programming mode

✓ Date and time are set.

5.4.3 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 MODULE SEL.**
5. Select the correct zone module (default is **0-on board zone**) and press [#].
   The system displays the next menu item: **ZONE FUNCTION.**
6. 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.

7. Press [–] four times to get to the **EXIT PROG. +SAVE** menu.
8. Press [#] to save the data end exit the programming mode.

✓ The selected zone is deleted (example: zone 1 is deleted).

5.4.4 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.

✓ The RF receiver for wireless communication is enabled.

5.4.5 Setting up a Zone for an RF Device

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 to which you to assign the RF device and press [#].
   The system displays the next menu item: **ZONE MODULE SEL.**
5. 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**
6. Press [#] to confirm.
   The system displays the next menu item: **ZONE FUNCTION.**
7. Enter 01 for the zone function **01-instant** and press [#].
   The system displays the next menu item: **ZONE IN AREA**.
8. 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**.
9. 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.
10. Press [#] to confirm.
    The system displays **ZONE NAME INPUT [a]**
11. Enter a zone name and press [#] to confirm.
    The system displays again: **INPUT ZONE No**.
12. Press [–] four times to get to the **EXIT PROG. +SAVE** menu.
13. Press [#] to save the data end exit the programming mode.

✓ 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 Connecting the AMAX panel to a PC

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.

- For information on connecting via IP or modem, refer to the AMAX Installation Manual.

Notice!

This manual describes how to connect to A-Link Plus. Programming the AMAX panel via A-Link Plus is described in the A-Link Plus for AMAX Online Help.

5.5.1 Prerequisites for connecting

Notice!

This manual describes the configuration with the A-Link Plus software in connection with the firmware version V 1.5 or higher. If you are using an older firmware version, refer to your local Bosch contact.

How to prepare a connection

1. Select **Customer** –> **New Customer**.
   The **Customer Information** tab opens.
2. Under **Customer Number**, enter a number.
3. Select the **Control Panel Configuration** tab.
4. Under **Control Panel Series**, select AMAX.
5. Under **Model**, select your panel model.
6. Only for AMAX panels V1.4 and lower: Select **Communication and Report manager** –> **Receiver setting.**
7. Only for AMAX panels V1.4 and lower: In the column **Receiver 1** and the line **Subscriber Number**, enter the value that is currently programmed in your AMAX panel as receiver 1.
8. Select **Communication and Report manager** –> **Remote Access -> Automation Pass code.**
9. Enter the value that is currently programmed in your AMAX panel as RPS access code.
10. Select **Code manager -> Installer code.**
11. Enter the value that is currently programmed in your AMAX panel as installer code.

5.5.2 Setting up a connection

How to connect via USB

1. Plug one end of the USB cable into USB port of the AMAX panel mainboard and the other end into the USB port of your PC.
2. In A-Link Plus, select the **Link** tab.
3. Under **Communication Model**, select **Direct Connect**.
4. Click **Connect**.

✓ The AMAX panel is now connected to the PC.

6 Technical data

Electrical

	AMAX 2100	AMAX 3000	AMAX 3000 BE	AMAX 4000
Power supply type	EN = A			
Panel PCB maximum quiescent current in mA	100			
Transformer				
Transformer input in VAC	230			
Transformer output in VAC	18			
Transformer AC power in VA	20		50	
Transformer fuse in mA	500		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	1100		2000	
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			
			– Battery 18 Ah standby 12h (recharge Batt 80% in 72h) = 1500mA – Battery 18Ah standby 36h (recharge Batt 80% in 24h) = 480mA – Battery 18Ah standby 36h + 15min alarm current 1000mA (recharge Batt 80% in 24h) = 400mA	
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%)			

	AMAX 2100	AMAX 3000	AMAX 3000 BE	AMAX 4000
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		13.11 – 14.2	
Aux 1 / 2 output current in mA at 25°C	500		900	
Outputs				
PO -1 / PO -2 maximum supervised output current in mA	500			
PO -3 maximum current in mA	100			
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	500		900	
Option bus 2 maximum current in mA at 25°C			900	
Battery				
Battery type	12 V / 7 Ah Bosch D 126		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	Power level for radio equipment
GSM900	Class 4 (2W) - GPRS Class 33
GSM1800	Class 1 (1W) - GPRS Class 33
UMTS2100	Class 3 (0.25W)

Electrical: Keypads

	IUI-AMAX4-TEXT (LCD text keypad)	IUI-AMAX3-LED16 (16 zone LED keypad)	IUI-AMAX3-LED8 (8 zone LED keypad)	IUI-AMAX-LCD8 (8 zone LCD keypad)
Minimum operating voltage in VDC	10.8			
Maximum operating voltage in VDC	13.8			14.1
Standard current consumption in mA	31			75
Maximum current consumption in mA	100		60	100

Mechanical

	AMAX 2100	AMAX 3000	AMAX 3000 BE	AMAX 4000
Dimension in cm (H x W x D)	26.0 x 28.0 x 8.35		37.5 x 32.2 x 8.8	
Weight in g	1950		4700	
Panel features				
Number of zones	8	32		64
Number of on-board zones	8		16	
Number of users	64	128		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	4	8		16
Number of DX 2010 modules		3		6
Number of DX 3010 modules	1	2		
Number of GPRS modules: B450-M with B442 or B443	Up to 2 different GPRS modules, each GPRS module can only be connected once			
Number of IP modules: B426-M, B450-M	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	-	32		64
Number of RF keyfobs	-	DSRF = 24, RADION = 128		

	AMAX 2100	AMAX 3000	AMAX 3000 BE	AMAX 4000
Zones				
Zone 1	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	
Zone 2 – 16 COM	7 single or dual end-of-line (EOL 2,2KΩ) NC, NO			15 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

	AMAX 2100	AMAX 3000	AMAX 3000 BE	AMAX 4000
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			

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 II
Belgium	INCERT (only for AMAX 3000 BE)	B-509-0063
Germany	VDS	Home

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