AE MAESTRO INTEGRATED CONTROLLER

SOFTWARE UPDATING MANUAL

Document Version : 2.1 In The Reference Softwares of : 2.XX ICT, 2.XX ICM, 2.XX ICS



PREFACE

This document is a guide how to update the software of AE-MAESTRO integrated lift controller.

You need an AE-MAESTRO hand terminal with an SD card with minimum 1GB memory to carry on software updates.

DEFINITION OF THE FILE TYPES

There are three programmable processors ICM, ICS and ICT in AE-MAESTRO integrated lift controller. The software types related to the boards and their variations regarding to the state of the device is shown below.

		CURRENT FILE TYPE
		With Bootloader
	Controllor Doord	bem
		Version: 2.xx
	Matar Driver Board	bes
ics	ICS WOLDE Driver Board	Version: 2.xx
ІСТ	Hand Terminal	ict

Upgrade files (**mbi** and **sbi**) include current board software (**bem** and **bes**) and additionally special software to upgrade the board to the bootloader version (2.xx).

Please note that "xxxx", "xx", "yy" or "-----" stands for do not care character strings.

STEP 1: File Transfer to Memory Card

First step is getting new files to be used for software update. Generally the files are sent with mail to you. If they are received in compressed form such as Winrar, Winzip, 7-zip, ...etc, then you should first extract the files into a folder in your PC.

10.1	231z Abem	11 setup
10.2	231z,ALLmbi	ill setup
11.3	iii config	III and
10.4	errorst	Svie 1
5	III emors2	Evne
10.6	ill errors3	Sil srv4
10.7	Parone III	lil sn5
8	emors5	E srv6
220g.05.bes	emors6	sev7
220g.05.ibi	#mors7	Brite E
220g_07.bes	Barrome III	10 versel
220g_07.sbi	hw1	
220g_11.bes	tw2	
220g_11.sbi	had .	
220g_15.bes	ill heed	
220g,15.sbi	hw5	
220g,22.bet	hw6	
220g.22.sbi	hw7	
220g_30.bes	112 Aved	
220g_30.sbi	ill tang	
220h,05.bes	setup1	
220h,07.bes	setup?	
220h,11.bes	ill setupl	
220h,15.bes	Fquite III	
220h,22.bes	ill setup5	
221y,Aid	ill setup6	

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Then transfer the files into the memory card. The memory card slot is at the right side of the hand terminal as seen below. After copying files into the SD card insert it into the slot as shown below.



STEP 2: Checking current Versions

	[0] -]0.0	00m/s INS	Р 🛛 - 📜 Е:	: [0/0]
	R. Speed 0.	.00m/s 1	20 869	4
	5. Speed 0.	.00m/s		3000
	Current 9.	.26A 13	35 817	3
	DC Bus 66	58V 1 4	40 818 ¹	0000
	Car Pos. Or	nm M		2
Before starting anything, you should first		🕨 🖣 2 🛗		7000
check current software versions of the device		E	RS G:O	4000
and terminal. Because the updating				0
procedures varies depending on the	_			1000
procedures valles depending on the	•••••			
difference of the current version and new				
versions to load.		Main s	creen	
	[[0]] [] [] []			0/0
You can see current versions of the device				1 0/0 1
Fou can see current versions of the device	PARAMETER	VALUE	PARAMETER	VALUE
softwares in the information screen by	Serial No:	33688787	Date:	05.01.2000
pressing ESC button on the main screen.	Control Board	2.312	Clock:	00:22
1 0	Motor Driver:	2.20h	Total Start	3560
	Hand Terminal	: 2.22t	Start:	0
	SD Version:	2.00	Weight:	U
	Line Voltage:	400 ¥		
	KW:	7.5		
	Cur	rent vei	rsions in	fo

First compare the software of the hand terminal shown on the screen with the file in SD card.

The software version of terminal you are current using is under the header **Hand Terminal.**

The software in SD card is in the file with the extension xxxxx.ict.

If your terminal has a **lower version** number then the one in SD card then you should **upload the file into the hand terminal. G**o to the next section **STEP3**.

If your hand terminal has a **higher or the same** version number as the file in SD card then **skip** ICT UPDATE and proceed to **STEP 4.**

STEP 3: ICT Update (Hand Terminal Software Update)



STEP 4: ICM Update (Controller Board Update)

Compare the software version of Control Board shown in info screen with the controller file (xxx. bem) in SD card.	[0] - 0.00 PARAMETER Serial No:	0m/s INSF VALUE 33688787	PARAMETER Date:	0/0 VALUE 05.01.2000
If controller has a higher or the same version	Control Board:	2.31z	Clock:	00:22
number as the file in SD card (yyy hem) then	Motor Driver:	2.20h	Total Start	3560
	Hand Terminal:	2.22f	Start:	0
skip this section and proceed to step 5.	SD Version:	2.0c	Weight:	0
	Line Voltage:	400 ¥		
If the controller has a lower version number	KW:	7.5		
then the controller file in SD card then you				
should upload the controller file into the				
device.				

This procedure is only applicable for devices which have **Controller Boards software version above2.00.** If it is 1.xx then you should firstly load bootloader. Consult technical support to continue.

Before starting this step, please switch to inspection mode.





STEP 5: ICS Update (Motor Driver Board Update)

Driver shown in info screen with the motor	[0]] -]0.0	Om/s INSF	•	0/0
driver file (xxx. bes) in SD card.	PARAMETER Serial No:	VALUE 33688787	PARAMETER Date:	VALUE 05.01.2000
If motor driver has a higher or the same version number as the file in SD card	Control Board: Motor Driver: Hand Terminal:	2.31z 2.20h 2.22f	Clock: Total Start Start:	00:22 3560 0
(xxx. bes) then skip this section.	SD Version: Line Voltage:	2.0c 400 ¥	Weight:	0
If the motor driver has a lower version number then the controller file in SD card then you should upload the motor driver file into the device.	KW:	7.5		

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In order to update motor driver board, first of all you **must know the power of the device**.

You can learn it either from **info screen** or **label** of the device.

It is given under the header **kW** or **Power**. The file used in uploading must match the power of your device.

				-
			or H(ן ע
	Integr	ated Lift Control	ol System	
Model :	264AEM0	07D22	สมส	
Serial : Input :	191007A	20VAC 50/60Hz	200	CE
Output : Pn :	3P 0-400 7.5kW	VAC 0-250Hz In : 18A		0400
	YBEY ELEK	TRONIK SAN. TIC. A	9 06 Pendik-İstanbul	

This procedure is only applicable for devices which have **motor driver software version above2.00.** If it is 1.xx, then you should firstly load bootloader. Consult technical support to continue.

Before starting this step, please switch to inspection mode.

Go to Data,Software ico	Graph	Write to SD Select	Save Graph Ver	rsion
Go to Data,Software icc Power BES File 5 KW 2XXX (on and open it.	Selec	t ICS Upload icon.	•
PowerBES File5 KW2XXX (
PowerBES File5 KW2XXX		[0] - 0.00m Do not unplug o	/s INSP - E: In shutdown the syste	0/0 m
5 KW 2XXX (e Name	power:::	Data Madified	<u> </u>
	5.bes	Pile Name 220G 07.BES	25:08:20 14:53	79KB
7.5 KW 2XXX (7.bes	220G_11.BES	25:08:20 15:42	79KB
11 KW 2XXX 1	1.bes	220G_15.BES 220G_22.BES	25:08:20 15:23	79KB 79KB
22KW 2XXX 2	2 hes	220G_30.BES	10:09:20 13:40	79KB
30 KW 2XXX	0 hes	22015-115-BES [4]	25118:211-14:51	_79KB
	0.003		0%	

Select the file with xxx.bes extension and highest version number and also having the same **kW value with your device** by using UP and Down arrow buttons and press **ENT** button to start the **ICS** upgrade process.

Using a file which has not the same powe operation. Please give attention for this s	r value as your device will result in inproper ubject.
The process will start after your confirmation.	Image: Construction of the starget Image: Constarget Image: Construction of the sta
When the operation is completed successfully then restart the device to activate the new software.	[0] - 0.00m/s INSP - E: 0/0 Do n WARNING WARNING Image: Constraint of the system Image: Consten Image: Constrainton