

GUIDE- 6 AC-MAX LIFT CONTROL

Description

The AC-MAX CU-8LC Lift Control kit ref. 5222 is composed of the following material and allows the connection of an elevator up to 8 floors (if you have more floors in your elevator you must add the number of expanders and licenses every 8 floors corresponding and request it indicating the MAC of your AC-MAX CU-8LC controller to receive the specific fileor to be able to control more expanders):

Ref. 5222 KIT ELEVATOR AC-MAX-CU-8LC.

-BOX-IP metal box

-PWR4D feeder. 13.8 Vdc/5.4A

-AC-MAX-CU 8LC ELEVATOR Controller.

-Expansor of 8 I/O EXP8-IO. (ref. 5201)

characteristics

- AC-MAX CU-8LC Elevator Control Unit licensed up to 8 floors.
- AC-MAX System I/O Expander
- 8 NO/NC inputs
- 8 relay outputs COM, NO, NC (EXP8-IO) 30Vcc/1.5A
- RS-485 interface for communication with the elevator controller (set by default with ID address 110)
- Strips with screws.
- APWR4D limenter: 13.8Vdc/5.4A rated power 75W
- IP20

Note: The elevator kit comes standard with a license of up to 8 floors if you have been licensed for more than 8 floors you must load it into the microSD memory of the kit controller. See ANNEX 1.

installation.

Internal pre-wiring of the kit.





It is necessary to add the power supply cable and ethernet network of the kit.



Fig 1 Concept scheme with conventional elevator.



Fig 2. Example of connecting an elevator kit with two EXP8-IO expanders and wiegand reader in conventional elevator.



Lift Control Start-up Steps.

Software setup and commissioning steps.

AC-MAX ST management software uses the following softwares.

AC-MAX ST v2.0 (Standard Software)

AC-MAX CS v2.0 (ServiceActivation Software)

Manuals and software v2.0 available <u>www.fermax.com</u> through the QR code (1) attached,

(1)



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Step 1: Install Software – Install AC-MAX ST V2.0.

Note: Before starting the installation check that your computer is in the range of the power Floors and readers to be configured. 192.168.0.x.

Confirm that you do not have AC-MAX LT or AC-MAX CS installed. Before installing the software.

• Download the software from the web or the attached QR link.



• Accept the license agreement and click Next.

setup - AC-MAX 2.0.2.25600	_		\times
License Agreement Please read the following important information before continuing.		G	
Please read the following License Agreement. You must accept the tr agreement before continuing with the installation.	erms of t	his	
Read this document carefully before installing the S	Softwa	re. If ^	
you have made a decision to install and use the S	Softwa	re, it	
shall be tantamount to acknowledgement and granti	ng cons	sent,	
on behalf of the Licensee, for the terms and condit	ions of	this	
Software User License Agreement (License Agreeme	nt) and	d the	
Conoral Lisonce Terms and Conditions (CLTC). If w	u dica	~~~~ Y	
 I accept the agreement 			
○ I do not accept the agreement			
Nex	t >	Can	cel



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• We see where the software will be installed on pc.



• On the next screen select *Do not create folder from the Start Menu*.

	🔤 Setup - AC-MAX 2.0.2.25600 — 🗌 🗙
	Select Start Menu Folder Where should Setup place the program's shortcuts?
	Setup will create the program's shortcuts in the following Start Menu folder.
	To continue, click Next. If you would like to select a different folder, click Browse.
	FERMAX\AC-MAX Browse
	✓ Don: create a Start Menu folder < Back Next > Cancel
Create a shortcu	it on the deskton
	Setup - AC-MAX 2.0.2.25000 — A
	Select Additional Tasks Which additional tasks should be performed?
	Select the additional tasks you would like Setup to perform while installing AC-MAX, then dick Next.
	Additional shortcuts:
	Create a desktop shortcut
	< Back Next > Cancel



 Install AC-MAX ST.
 IMPORTANT: If you have AC-MAX LT or AC-MAX CS installed uninstall it before installing AC-MAX

Ready to Install	• • • • • • • • • • • • • • • • • • • •		1
Setup is now ready to begin installing AC-MA	AX on your comp	uter.	¢
Click Install to continue with the installation, change any settings.	or click Back if y	ou want to revie	ew or
Destination location: C:\Program Files (x86)\FERMAX\AC-MA	ΑX		^
Additional tasks: Additional shortcuts:			
Create a desktop shortcut			
			~
`			

• Once installed type in *Run AC-MAX* and then on *Finish*.





Step 2: Load Elevator database and activate services.

1. Open AC-MAX ST

The system can work with a Microsoft SQL Server Compact 4.0 database of local type or with a Microsoft SQL Server 2005 database of centralized type (or higher). The example will use the local type database. Centralized database configuration is explained in another guide.



• In the window below, enter the database name and select the source database that was downloaded next to the ELEVATOR GUIDE called KIT_ASCENSOR_8_FLOORAS.sdf. Click the OK **button.**





• When the database is opened, the AC-MAX ST software login window is displayed. Starting as Admin, with the password 'fermax'



- Click OK to start the AC-MAX ST software.
- Then close the program.
- 2. Install AC-MAX CS, select the BBDD and activate communication services.
- Install AC-MAX_CS, as an administrator.



• Select the installation language.

Select S	Setup Language X	
	Select the language to use during the installation.	
	English ~	
	OK Cancel	



• Accept the license agreement and click Next.



• We see the location where the program will be installed.





• Next.



• Next

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					-	
			< Back	Next >	0	ancel
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• Next.

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Next



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	Install AC-MAX Web Server			
	The Server is used to host a AC-MAX Web dient without manual server. IIS Express is required for proper operation.	configuratio	n of IIS	
	< B Ck	Next >		ncel
Type Do not creat	te a folder in the Start Menu.			
	🞎 Setup - AC-MAX CS 2.0.2.25600	_		\times
	Select Start Menu Folder			



• Click Create a desktop shortcut.





• Install



• Type in Run AC-MAX CS and Finish



• It will stay in the resident and we must go with the mouse and right-click *type in Show service control panel.*





• Then go to Database Connection *to select* the database of the installation we just created.



Go to Configure Connection.

AC-11AA CS 2.0.2.25000		~			
(<) Database	connection		AC-MAX CS Connection co	2.0.2.25600 onfiguration	× @ ×
	Data source type (none) Data source (none) Version		Enter inform different di Name: Data source: Connect to dai Select a dat Security Enter password	mation to connect to the selected data source or click " ata source ACMAX Microsoft SQL Server Compact 4.0 tabase abase:	Change" to choose a
Information		1	Password:		
2021-04-28 08:03:22 Connectio	n test to database was unsuccessfull.		Test connectio		Cancel

• Select the elevator database.

Abrir				×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \ll Win \rightarrow AC	MAX_DATA v ී	Buscar en ACN	IAX_DATA	P
Organizar 👻 Nueva carpeta			== -	?
🕹 Descargas 🔷 🔨	Nembre	<u> </u>	Fecha de m	odificació
Documentos	LIFT_CONTROL8DOORS		30/04/2021	13:43
Escritorio		Tipo: Arch	nivo SDF	
📰 Imágenes		Tamaño: 9 Fecha de	9,93 MB modificación:	30/04/202
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Objetos 3D				
🚪 Vídeos				
🔛 Windows (C:)	<			>
Nombre: LIFT_C	CONTROL8DOORS ~	SQL Server Co	mpact 4.0 Dat	aba 🗸
		Abrir	Cance	lar



	\langle	Database connection
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Connection co	nfiguration 🔋 🗙	Information
Enter inform different da Name:	nation to connect to the selected data source or click "Change" to choose a ta source ACMAX	2011-9-50 13 4214 University instal 3 particular ties accessibly friends.
Data source:	Microsoft SQL Server Compact 4.0 Change	
Connect to data	abase	
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C:\ACMA	X_DATA\LIFT_CONTROL8DOORS.sdf Select	
Security		
Enter password	to existing database or enter password to protect a new database	
Password:		
Test connection		
resconnection		Configure correct

After selecting the local network it should be in the range of the elevator kit that comes factory configured as 192.168.0.213 so our PC will have to be in that range. Example 192.168.0.99

F

Now open Communication Services to set the IP of **our PC that must be initially in the IP range of the devices to configure 192.168.0.xx.**

Service Name Terraicanacaterier Service State turney Type of service run	Service Name Terracomonatoriari Service State Type of service run
Log in as Log in as Log in as Version 2:2.2.500	Aus Description Construction
Advector for the set of the set o	Confusation General Address District Confusation General Address District Confusation General Confusation
Construct Communication Server	Conduct Communities Settings Network Adapter for Communication Server 192:38:3.99 Contacts



Activate Communication Service by starting 'play'



• Until you see in green confirmation that they are active.





Step 3: Configure the installed hardware devices:

The steps to start the elevator will be asfollows:

• Open AC-MAX ST v2.0



• Starting as Admin, with the password 'fermax'

🔤 Login		?	×
	Login: Admin		
	Password:		
ac max ST			
Database:[LIFT_CONTRO	.8DOORS.sdf]		
	ОК	Cancel	

- Click OK to start the AC-MAX ST software.
- First deploy the Navigation Tree to the ELEVATOR KIT and right-click
 →Commands→Run Device Initialization, to detect the installed elevator kit and its 8 storey expander. The kit must have been powered and the network cable connected
 directly to the PC before.

ist.	Navigation Tree View	¥ ×	Start Page	
on	figuration			
)	٠			
2	g System			
•	Access Users			
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	Global Commands	A Move		
	Perimeter Zones	C Delete		
	Visit Zones	and a second		Edit Person Online
		Commar	ids 🦿 🚺	Run Device Discovery
		Low Leve	l Configuration	Synchronise
				📴 Set Date and Time
				Restart with Dynamic Data Reload
				Restart without Dynamic Data Reload
			Delete Person C	Set Communication Key
				P u u u r
				 Upload License File

• Run detection and close. We see that you have detected the AC-MAX CU control unit (with the elevator license and the EXP8-IO expander with the address 110 that comes from the factory.



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[51:9:794]: Database updating [51:9:3784]: Database updating [51:9:3784]: New Device detected: DP8-10 V.L.Address: 10 [0] [51:94-1874]: Nama device detected: DP8-10 V.L.Address: 10 [0] [51:94-1874]: Nama device detected: DP8-10 V.L.Address: 10 [0] [51:94-1874]: Nama device detected: DP8-10 V.L.Address: 110 [0] [51:94-1874]: Nama device detected: DP8-10 V.L.Address: 110 [0] [51:94-1874]: Nama device detected: DP8-10 V.L.Address: 110 [0] [51:94-1874]: Database updating successful [1] [54:94-1874]: Database updating successful [1] [54:94-1874]: Database updating successful	[51:8:794]; Dabbase updatrg [51:93:894]; Nev lowice detected: APA3(2, U, Address: 0 [51:93:946]; Nev Device detected: APA3(2, U, Address: 10 [51:93:194]; Nationg device detected: APA3(2, U, Address: 10 [51:93:194]; Nationg device detected: EP93:0 v 1.x. Address: 110 [51:93:194]; Nationg device detected: EP93:0 v 1.x. Address: 110 [51:93:194]; Database updatrig successful Ready	[5:1]	9:37 PM]: Device capabilities reading succesful		
[51:3:3:874]; New Device detected: AC4AX-CUL Address: 0 [51:3:3:974]; New Device detected: PSP30 V J.x. Address: 10 [51:3:3:974]; Newing device detected: AC4AX-CUL Address: 0 [51:3:974]; PM]; Maing device detected: AC4AX-CUL Address: 0 [51:3:974]; PM]; Maing device detected: AC4AX-CUL Address: 10 [51:3:974]; PM]; Maing device detected: DP8-10 v J.x. Address: 10 [51:3:974]; PM]; Maing device detected: DP8-10 v J.x. Address: 10 [51:3:974]; PM]; Maing device detected: DP8-10 v J.x. Address: 10 [51:3:974]; PM]; Maing device detected: DP8-10 v J.x. Address: 10 [51:3:974]; PM]; Bailbaies updating succestful [51:3:974]; PM]; DataBaile updating succestful	[51:9:39:94]: New Device detection Advass: 0 [51:9:39:94]: New Device detection 5:940 V L.A. Address: 10 [51:9:39:94]: New Device detection 5:940 V L.A. Address: 10 [51:9:49:19:14]: Newng device detected: Advass: 11:0 [51:9:49:19:14]: Database updating successful [Ready Ready	[5:1	9:37 PM]: Database updating		
[51:93:97M]: New Device detected: DPR-ID V1.X. Address: 10 [51:94:17M]: Mang device detected: AVX.Q.J. Address: 10 [[51:94:17M]: Namag device detected: DPR-ID V1.Address: 110 [S1:94:17M]: DAtabase updating successful [S1:94:17M]: DAtabase updating successful [S1:94:17M]: DAtabase updating successful	[51:93:97M]: Nev Device detected: DP910 V LX. Address: 10 [51:93:97M]: Neurop device detected: DP910 V LX. Address: 10 [51:93:97M]: Neurop device detected: DP910 V LX. Address: 110 [51:93:97M]: Detabase updating successful v Result/V	[5:1	9:38 PM]: New Device detected: AC-MAX-CU. Address: 0		
([5:19:41] MPI], Meang device detected: A.CMAY-CU. Address: 0 ([5:19:43] PMI]: Database updating successful ((5:19:43] PMI]: Database updating successful v	① [S1:94139] Niming device detected: ACMAX-CU. Address: 0 ① [S1:94139] Niming device detected: PSPA 0 \ L1. Address: 10 ② [S1:94-33] PM]: Database updating successful Ready	6 [5:1	9:39 PM]: New Device detected: EXP8-IO v1.x. Address: 110		
① [5:19-43 PM]: Maxing device detected: DDR-30 v1.x. Address: 110 ② [5:19-43 PM]: Database updating successful v Rcady	() [S19-43 PM]: Mang device detected: DP8-10 V1.x. Advess: 110 () [S19-43 PM]: Database updating succesful v Recently	() [5:1	9:41 PM]: Missing device detected: AC-MAX-CU. Address: 0		
 (5:19:43 PM): Database updating succesful Ready 	[5:19:43 PM]: Database updating successful v Ready	() [5:1	9:43 PM]: Missing device detected: EXP8-IO v1.x. Address: 110		
Ready	Ready	[5:1]	9:43 PM]: Database updating succesful		
Ready	Ready				Y
			Ready		

 Then we will go to Hardware Resources we will deploy ticing above the arrow and rightclicking on top of the elevator control unit that was configured but has not detected AC-MAX CU in red and crossed out we will strikethrough in replace and replace with the new driver detected. This same operation will also be done with the expander and any items that need to be replaced in the installation.

					Navigation Tree View	×
					Configuration	
					s • 3	
Configuration C	A				Card Box Card Box Image: Card Box Image: Card Box <	^
→ Main Board					Main Board	
Access Doors Access Doints	Select I	Device		? ×	Access Doors	
Access Zones	F ID	Name	IP Address	RS485 Address	Access Points Access Zapas	
Adam Zones Adam Adam Zones Adam Zo		ac-Max-OU	192.168.0.213	0	Altern Zones Autorn Stokes Autorn Stokes Autorn Zones Autorn Stokes Inputs P Outputs P Punction Keys Inputs Displays	
Local Commands					Power Supplies	ł
► Delete	- N				F 💭 [S] AC-MAX-CU	
→ 🛱 [10] ExP8-IO v1.x 🚯 Replace					A <u>66 EVP8 IO v1.x</u> 101 EVP8-IO v1.x 101 EVP8-IO v1.x	
Wrtual Controllers Input St Input St	atuses				- Virtual Controllers	
Global Countries	itat		✓ OK	Colored Succes	R Fingerprint Readers	~

• Once replaced we will configure the devices at a low level to change the IP address of the controller well to get it into the desired range well to change any parameters that are required.

1: Navigation Tree View	* × 💼	Page	
Configuration			
s *			
Card Box	^		
[1] Communication Server1 [2] Controller Groups		Confirmation	×
▲ 🚰 (2) CG1_GROUP_KITS			
A BE Main Read	Open		
Access Doors	M Fit	Controller will be switcher	d to Service Mode. Continue?
Access Points	A Moun		
Access Zones	Dulue		
Alarm Zones	Delete		
Access Terminal	Committee .	Yes Yes	No
Inputs	🚪 Low Level Configurati		



	2
192.168.000.213	
192.158.000.001	
255.255.255.000	
250	
[0]: No	
Unknown	
[1]: ON	
(0): Auto	
0x00040001	
0x00040001	
0x00040001	
0x00040001	
[4]: PIN only	
10000	
10000	
10000	
10000	
	192.166.000.213 190.100.001 283.58.785.00 290. 20.

- If any AC-MAX CU parameters are changed, you must first click Send to Device to save all changes to the driver.
- Then we will go to the RS-485 Bus tab to configure the expander if necessary. If not directly close.



When you close the low-level configuration, you ask us if we want to initialize the detection of the new configuration, we'll say yes.

	Device Discovery ? ×
	1 Device discovery completed successfully
	Controller
	Name: [3]: LIFT-CONTROL-8DOORS-1.7.2
	Address: 192.106.0.213
	Options
	Run device discovery
	O Read latest device discovery data from controller
	O Read device discovery data from file
	- Discovery Status
	[2:42:37 PM]: License information reading
	[2:42:37 PM]: Device discovery in progress
	 [2:43: 10 PM]: Device discovery completed successfully.
	[2:43: 10 PM]: Device information reading
	 [2:43: 10 PM]: Device information reading successful
Confirmation ×	[2:43: 10 PM]: Device capabilities reading
	 [2:43:10 PM]: Device capabilities reading succesful
	[2:43: 10 PM]: Database updating
Do you want initialize access controller after banware configuration changes?	 [2:43: 16 PM]: Database updating succesful
	Ready
Yes No	Run 8 Close



• If it is necessary to change the activation time of the elevator pushbuttons it will be done before synchronizing. Accessing the corresponding door (floor).

				Edit Access Do	or		? ×
				General			· · · · · · · · · · · · · · · · · · ·
				ID:	2		
				Name	C1 KTT BLOOR 1		
				Hunc.	cijalj tosti		
				Group:	None		- 0
				LCD Message:			
				Keypad Shortcut:	No shortcut		-
*Navination Tree View	Start Pag			Description:			
Configuration							~
(2)	Edit Access D	oor	? ×	D			
Pil Card Rox	- General			- Door Mode Option	18		
Authentication Factor Types	ID:	2		Detault Door Mode	Normal		
Authentication Policies	No. of Control of Cont			Door Mode Schedu	le: None		× ©
TE Calendars	Name:	cijui pioori		- Door Options			~ ~
G schedules	Group:	None	- 0	Re-lock:		Disabled	-
A Retworks	LCD Message:			Lock Dates (c)			
[1] Communication Server 1	Keypad Shortout:	No shortcut		cook rosse [s].			
A 🕅 Controller Groups	Description			Lock Pulse Extende	d [s]:		410
A BUT [2] CG1_GROUP_ICTS	occorpton.			Lock Pulse Delay [s]:		0 ≑
→ Main Board	Favo			Door Open Too Lor	ıg Time (s):		4 *
A Coess Doors	Door Marke Ontio	<i>m</i>		Cancel Door Open	Too Long Alarm when door dosed:	2	
(3) C1 KT FLOOR2 Open	Defe it Door Mode	Normal		Door Open Too Lor	a Alarm not only in Normal Door Mode		
[4] C1_KIT_FLORE	Denois Door Proor				- A		
[5] C1_KILELOOR4 CO EDIT	Door Mode Sched	de: None	* ©	Door Upen 100 Lor	ig Presiarm Time (s):		
[6] C1_KIT_FLOORS CONT	- Door Options			Disable event [321	: Door Forced Alarm:		
► T 181 C1 KTT FLOOR7 Remote Commi	nd						
🕨 🚺 [9] C1_KIT_FLOOR8 🐴 Access Users							
🕨 🖉 Access Points 👘 Access Credenti	als		OK Cancel			ОК	Cancel

• Then synchronize the installation, either by accessing by top panel or by bottom panel.

Synchronise									
Tools	e .d 🔇	Sync Clic Sync	chronisa k to syr hronisati	nchro on Sta	Status: 4/3 nise device tus: 4/30/20	0/2021 : *5.)21 1:38:2	1:38:28 PM 8 PM\succes	l\succes	5
Device Synchronisation Click (Start) button to synchronise selected devi Devices Devices Start S Select All D Unselect All	kes.					Reload d	ynamic data: 🗵	Reload object	? s states:
Name	Device	2	Address	Port		Status		Pr	ogress
							м	« < Record 1	of 1 >>

• When you finish you will have already set up your elevator you will need to add the users and assign them the corresponding floor authorizations.



STEP 4: High users with access to certain Floors.

Open Credentials



• Add Credential



• Assign authorizations to the corresponding Floors 1 and 4.





• Then Add Identifier. Example PIN type, but you can also select another type as a card or fingerprint depending on the reader installed in the elevator.

î	Start	Page	Access Cred	entials $ imes$						
Ac	ess C	redentia	als							
C	Add	🗷 Eo	dit 🛛 Select All	I 😑 Delete	🚑 Synchronise	🙃 Access P	review 🔀	Clear /	APB 🔇 Ref	
		ID		Name		Туре	Belo	ngs to	Status	
٩		= R	Search			= Search	= 56	arch	= Sear	
		2 A		2_Access User Per	son1 (Floors1-3)	None	Access	User	Active	
F		3 A	ccess_Credential2	-Floor1+Floor4		None			Active	
										Add Authentication Factor ? ×
										- General
										Name: Authentication Factor 2-PIN 2222
										Status: Active
										Type: PIN
De	tails –									
Ma	in	Authori	isations Author	risation Groups	Authentication Fa	ctors				- Factor Value
e	Ardo	D2 E	dit 🔹 Select Al	II 🖨 Delete	🛃 Add from the	Card Box	🕄 Refresh	📄 Re	port	Value:
		ID			Name			Status		Retype Value: ••••
٩		= Sea	rch 📭 Seard				= Searc	h		
										S Generate
										– Factor sending
										Send mobile text: SMS Gateway: None
										Send email: SMTP Account: None
										Cancel



Cod. 970078lb-6 V04_21

😭 Start Page	Access Credentials 🗙			
Access Credent	tials			
🕂 Add 🕑	Edit 🖻 Select All 😑 Delete 🛛 🧟 Synchronise	🕵 Access Preview	/ 🚯 Clear A	
ID	Name	Туре	Belongs to	
۹. =	search	= Search	= Search	A
2	Access Credential 2 Access User Person 1 (Floors 1-3)	None	Access User	
► 3	Access_Credential2-Floor1+Floor4	None		
Details Main Auth Gadd I A B C Sadd I C Sadd I C Sadd I Sadd I I Sadd I I Sadd I I Sadd I I I Sadd I I I I I I I I I I I I I I I I I I	orisations Authorisation Groups Authentication Fa Edit Select All Delete Add from the D Name arch 410 Search 3 Authentication Factor 2-4/212222	actors Card Box 🙀 Sen = Act	id PIN (email) Status Search ve	Add Authentication Factor ? × General Name: Authentication Factor229 Status: Active Type: 24 bit proximity card Factor Value Value (DEC): Value (HEX): Program Card Read com Reader OK Cancel
Read frum G Sett do Cod Reader D	bber se Secsas Termend (*) Tame 2) (cl. stt. Jähr, Access provint dh'Albranses)	Descriptor	7 X Refea	Add Authentication Factor ? × -General Name: Authentication Factor 229 Status: Active Type: 24 bit proximity card Factor Value Value (DptC): 12026244 Value (Httl): 0B78184 Program Card Read from Reader
	Number reading: 0878184		Cancel	OK Cancel

• After the Add Perdon Online Wizard



• Modify Next→Name Use→Use existing Credential→Next



Add Access User Person Online		Add Access User Person Online ?	×
Person details Enter Access User Perso	on data and dick (blexit) to continue.	Access Condential type selection Select new Access Condential or existing one to be assigned to Access User Person.	
Steps	General	Steps	
🥝 Person details	Name: Access User Person2-Floor 1+Floor 4	Oreate new Access Credential	
Access Credential type selection	No imoge Last Name:	Access Credential Access Credential	
🙆 Access Credential details	Group: (none) - 🕲	Access Credential details	
Authorisation Groups selection		Authorisation Groups selection	
Authorisations selection	Contact Information Additional Options Remote Management Private Data Protection Descrip	Authorisations selection	
Authentication Factors defining	Emai: Phone:	Authentication Pactors defining	
Access Credentials selection	Postal Code: City:	O Access Credentials selection	
🕲 Data saving	Address:	O Data saving	
Synchronisation		Synchronisation	
	Next Canoel	Back Next Cancel	

• Select the credential that includes the authorizations for the corresponding Floors and their ideifier.--> Next→OK

Add Access User Person Online		? ×	Add Access User Person Online		? ×
Access Credentials selectic Select Access Credential	on (i) to be assigned and then click [Next] to continue.		Data saving Select [Next] to save set	tings into database.	
Steps	Select All Unselect All	Find Credential	Steps	[17:50:01]: Starting data saving.	
Person details	Enter text to search Find		Person details	[7:50:01]: Creating object: Access User Person (Access User Person2-Floor 1+Floor 4) [7:50:02]: Assign object: Access Credential (Access Credential2-Floor 1+Floor 4)	
Access Credential type selection	ID INSTR		Arrans Crastantial time subartism		
C Access Credentials selection	v B - 40x I I 3 Access_CredentsJ2+0 or 1+Floor+4		Access Credentials selection		
🖉 Data saving			📀 Data saving		
Introventen		Canal	Syndromesten	beta rand accession	2 2 2
	Back Net	Cancel		Back	Cancel

• Send and Finish.

C1_KIT_LIFT_CONTR	192.168.0.213	Settings synchronisation: succ	iess.
1D Name	alial's Elevent (Elevent	Operation	
/ J Access_Crede	108/241001 24110014	AUU	
	ID Name	D None 3 Acces_Credential/Floor14floor4	D Name Operation x 3 Access_Ordential2#Bor1+Hoor4 Add

• When you finish synchronizing the installation, either by accessing by top panel or by bottom panel.



	Tools Synchro	onise	Synchronisatio Click to synch	on Status: 4/30/20 pronise devices.	21 1:38:28 PM\suc
evice Synchro	nisation	d	Synchronisation	Status: 4/30/2021 1:	38:28 PM\success
	lect All 💮 Unselect All Nene	Device Access Controller	Address Port 192,186,0,213 21063 Processed	Reload dynamic dat Status data Succes	n 🐼 Reford objects states: 📝 Progress Record

We check the correct functioning

Configuration Configu	dministration CCTV Ma nes r Start Page	ps Time or				
Start Page Event Monitor ×						
Event Monitor Zedit Filter: All Events	🔻 🕂 🖉 🕲 Refresh	😑 Clear 📄 Repor	t	Cursor on Latest Event	Layout Confi	iguration 👻 🗸
Enter text to search		Find				
♡ ? □ Time and D ▼ Event	Controller	Location	Source	Access User Person	Option	Communic
م = Search هاد Search	RBC Search	RBC Search	Roc Search	Roc Search	Roc Search	Roc Sear
▶ 🖓 5/3/2021 6:03 Access Granted	[1]: C1_KIT_LIFT_CO	[2]: C1_KIT_LIFT_AC	[2]: C1_KIT_LIFT_AC	[4]: Access User Person2-Floor1+Floor4		[1]: Com
	[1]: C1_KIT_LIFT_CO	[2]: C1_KIT_LIFT_AC	[3]: Access_Credenti	[4]: Access User Person2-Floor1+Floor4		[1]: Com

ANNEX 1: HOW TO LOAD LICENSE IN ELEVATOR CONTROLLER. AC-MAX CU

If the elevator to be configured has more than 8 floors, ANNEX 2 must also be followed.





- 1. Verify that the license you received matches the MAC of your driver.
- 2. Remove power from the AC-MAX CU controller.
- 3. Apply a small pressure to the microSD of the control unit until you notice a 'click' where it will release the microSD. **IMPORTANT: It is important not to force it could render your floor useless.**
- 4. Using a USB interface connect the microSD to the computer.
- 5. Open the file and replace the txt license with the received one.



- 6. Re-insert the microSD into the control unit and press a small pressure until you notice a 'click'.
- 7. Power the controller again.
- 8. Configure the IP address of the control unit using AC-MAX ST. See guide-3

LOW-LEVEL CONFIGURATION OF EXP8-IO EXPANDERS





Using the JP1 to 1 JP5 jumpers it is possible to indicate the RS-485 address of the expander to be installed. It is important that all RS-485 devices connected to the IP control unit have different addresses.

Each Jumper has its own value, which are:

JP5 x 100 JP4 x +8 JP3 x +4 JP2 x +2 JP1 x +1

If you want to set a different ID address than the default ID-110, you can place the jumpers in the following positions:



Note: Each time the RS-485 address of the hardware is changed, the device must be rebooted.

Low-level configuration from AC-MAX v2.0 software is possible as long as the JP7 jumper is added to the EXP8-IO expander. If you also need to change the RS-485 ID address from your PC, jumpers will need to be removed from JP1 to JP6, so that the software sends the new address to each expander.



ANNEX 2: How to add more floors.

Example of Elevator up to 12 floors. The Elevator kit will have a license loaded up to 16 floors. And with wiegand reader connected inside the elevator.



Fig 1 Concept scheme with conventional elevator. Connection of both an elevator kit and a door kit.

Add the doors (missing Floors), adding the corresponding relay output to each floor.

example:

• Add Door and edit name. To create the 9th floor.



• Open and go to Exits.



	Spoors Favo Favo Favo Favo Start Page C C C C Details Main Inputs Out C	L_KIT_FLOOR9 X T_FLOOR9 X C Refresh IT_FLOOR9 e)
G Configuration	Access Credentials LCD Message:	
	Start Page C1_KIT_FLOOR9 × Details Main Inputs Outputs Function Keys Local C Add Edit Select All Delete S f ID Output Q = S = Search	Commands Refresh Report

• Add the relay output that we will wire to pushbutton 9 of the elevator.

	I SHISSINI I	1.1.561.54		
Add Output			?	\times
General				
Output:	None		- 6	
Function:	None		1	4
- Triggering Options				
Priority:				1 🔺
Triggering Method:	Set output ON for period of time			-
Pulse Time:	5 🚔 Unit:	s		-
- Modulation Option	s			
- Houdiadon Opdon	5			
Type:	None (steady)			-
Frequency:	8 Hz			Ŧ
Pattern:	11111111			
Number of Cycles:	5			Ŧ
		ОК	Cano	el

The function will be the [031] Door Lock (to set the opening time as the time that the elevator pushbutton will be active.



Output:	C1_KIT_LIFT_PUSH-BUTTON 9_111_REL1	2
Function:	[031]: Door Lock	-
Triggering Options	3	
Priority:		1
Triggering Method:	Set output ON for unlimited time	-
Pulse Time:	5 🔔 Unit: s	7
Modulation Option	S	
Type:	None (steady)	-
Frequency:	8 Hz	4
Pattern:	11111111	
	r	1
Number of Cycles:	None	
Number of Cycles:	None CK Cance	1
Number of Cycles:	None Cance	
Number of Cycles: How ↑ Start Page	None Cance Where CLUT_FLOOR9 ×	
How Start Page Detais	None CK Cance Where CLICT_FLOOR9 X	
How Start Page Details Main Inputs Ou	None CK Cance Where Lucat FLOCR9 ×	
How Start Page Detais Main Inputs Add @ Edit §	None	
How How Start Page Add C Edit	None CK Cance Where CLUST_FLOOR9 ×	I
How Start Page C Add Edit D D A = S = S = S	None	in

• Then add Advanced Authorizations to allow access to that floor.



• Duplicate the authorization of FLOORA1.

Auth	norisations						
0	Add 🔂	Duplicate	🗷 Edit 🛛 Select All 🄇	Delete 🛷 As	ssign to Acces	s Credentials 🔗 Assign to Persons	🔄 Refre
	ID	Enabled	Name	Туре	Refers to	Action	Include
٩			search	= Search	= Search	sorth	
×.		✓	Floor 1-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
10	3	\checkmark	Floor2-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	4	\checkmark	Floor3-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	5	\checkmark	Floor4-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	6	Image: A start and a start	Floor 5-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	7	\checkmark	Floor6-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	8	\checkmark	Floor 7-AU	Main	Function	[175]: Grant Door Access with Normal Loc	
	9		Floor8-AU	Main	Function	[175]: Grant Door Access with Normal Loc	

	Name	Enabled	Type	Descriptio	n	
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2	Floor 1-AU		Main			
3	Floor2-AU	~	Main			
4	Floor3-AU	~	Main			
5	Floor4-AU	~	Main			
6	Floor5-AU		Main			
7	Floor6-AU	~	Main			
8	Floor 7-AU	~	Main			
9	Floor8-AU	~	Main			

• Then edit.



Authori	sations									
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	3	1	Floor2-AU	Mai	n	Function		[175]: Gr	antD	or Access wit
	4		Floor 3-AU	Mai	n	Function		[175]: Gr	ant Di	oor Access wit
	5	1	Floor4-AU	Mai	n	Function		[175]: Gr	ant Di	oor Access wit
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Descrip	too-									

• Rename FLOORA9-AU and give ok.

General				
ID:	10			
Enabled:				
Name:	Floor9-AU			
Type:	Main			
Valid from:	[Not limited]	•	12:00 AM	
Valid to:	[Not limited]	*	12:00 AM	
Description:				
Details				
Refers to:	Function			
Action:	[175]: Grant Door Access with Normal Lock Pulse			
- Advanced Op	tions			

All authorization has the [175] function and a single advanced option is selected

Edit Advanc	ed Authorisation		×
General			
ID:	10		
Enabled:			
Name:	Floor9-AU		
Type:	Main		
Valid from:	[Not limited]	12:00 A	A N
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Description:			\sim
			~
Details			
Refers to:	Function		
Action:	[175]: Grant Door Access with Normal Lock Pulse		
Advanced Opti	ons		~
Includes authori	sation for all rules:		
Includes authori	sation for all Access Points:		
Includes authori	sation for all Function Parameters:		
	ок		Cancel

• Edit the positive rule to select the corresponding FLOOR door.



Who/What	Ho	W			V	Vhere	When	n Why
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8 *		ID	Enabled	Name	Type	Refers to	Action	Includes authorisate
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Garage Access Credentials				Flow 2 AU	Main	Purchase .	[175]: Grant Date Access with New	altas 🗌
Card Box		3		Piloor2-AU	Main	Punction	[175]: Grant Door Access with Norm	a Loc
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Authentication Policies		5	~	Floor4-AU	Main	Function	[175]: Grant Door Access with Norm	al Loc
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Construction Schedules		7	1	Floor6-AU	Main	Function	[175]: Grant Door Access with Norm	al Loc
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o Configuration	Valic	from:	[Not limit	ed]		Ind	udes authorisation for all Access Points	s: 🗹

Edit the Funcio Parameter to set the corresponding floor.

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T Calendars		6		Floor5-AU	Main	Function	[175]: Grant D	oor Access with Normal Loc.			
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- Then add the remaining Floors and perform the same process with each of them.
- When you finish synchronizing the installation with the elevator driver.

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