USER MANUAL

Elevator controller DC-One/TC/2300Win/MC/EC

User manual Elevator controller for DC-One/TC/2300Win/MC/EC

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1. Introduction

The elevator reader needs a flat surface of $111,5 \times 80 \text{ mm} (4 7/16 \times 3 3/16 \text{ inches})$, see picture 1. The elevator reader is constructed for built-in mounting inside elevators. The term *elevator controller* in this instruction refers to the elevator reader with one or more relay modules. There are different elevator controllers for different systems, see article numbers below:

(Art. No for the elevator reader: 684 040 021)
(Art. No for the elevator reader: 684 040 022)
(Art. No for the elevator reader: 684 040 031)
(Art. No for the elevator reader: 682 055 017)
(Art. No for the elevator reader: 682 055 037)

Relay module (same for all the above systems): 682 055 007

The information about mounting, relay modules etc. in this user manual is general for all four elevator controllers. The information about connection of an elevator reader to a relay module, initiation, daily use and service, differs between the different elevator controllers. If nothing else is stated in the headings, the information is general.

2. Mounting

2.1 Cut-out picture



2.2 Mounting overview



Picture 2

N m

2.3 Backup battery

The elevator reader is delivered with a 9 V alkaline backup battery (which should be exchanged every three years), a battery holder and an adhesive pad. The backup battery is used in case of external power failure for the reader only, to maintain the time and parameters that have been set.

- 1. Snap the battery into the battery holder.
- 2. Connect the battery firmly to the battery connector.
- 3. Fasten the adhesive pad at the back of the battery holder and fasten the battery holder where there is enough space for it.

2.4 Relay module

Timelox recommends that the relay module is purchased together with a rack for mounting with or without DIN rail. The mounting rack is delivered with Weidmüller gables AP 80 D, see picture 3 below.

The rack is available in two lengths:

- 100 mm (3 15/16 inches); mounting rack for 1 relay module (Art. No 866 438)
- 400 mm (15 3/4 inches); mounting rack for 2-4 relay modules (Art. No 866 439)



Picture 3: Relay modules in mounting rack with AP 80 D gables. The rack can be fastened with or without DIN rail.

For mounting on a standard 35 mm (1 7/16 inches) DIN rail, two Weidmüller clips RF 180 are required (see picture 4 below; the clips are enclosed with the mounting rack).

Note: The DIN rail is not supplied from Timelox.



Picture 4: RF 180 clip

Picture 5: The mounting rack with relay modules can be fastened on a standard DIN rail.

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The relay module is 75 mm (3 inches) high with mounting rack and DIN rail, and 52 mm (2 1/16 inches) with mounting rack only.

3. Electrical specification

- The elevator controller needs an external power supply of regulated voltage in the range 12-24 V DC.
- The maximum current consumption for the elevator reader is 100 mA continuously.
- The maximum current consumption for each relay module is 100 mA continuously.
- The elevator reader can be expanded with up to 16 relay modules, each with 8 outputs (giving a maximum of 128 outputs).
- The electrical standard for the serial interface connecting the different modules is RS-485.
- If the distance between the reader and the first relay module is more than 20 metres, the cable should be shielded. The shield should be connected to protective ground at one end.

Note: The maximum load of the relay outputs is

0,6A @125VAC or 2A @30VDC resistive

3.1 Connecting the elevator reader to a relay module (DC-One and TC)

Important: Use the same external power supply for the elevator reader and all relay modules, i.e. connect as described in section 3.1 and 3.3. This is to make sure that the ground is common for the elevator reader and all relay modules.



J9 and J3 are located on the reverse side of the card

Picture 7

J9 Relay output (see detailed description to the right)

J3	4 3	в]- А]-	RS485
	2 1	:]	Regulated voltage in the range 12-24V DC

Note: J9 and J3 are Timelox designations which are not visible on the elevator reader.

Relay module



The pictures of the elevator reader and the relay module are not of the same scale.

J9-3 is connected to J9-4 when the door is closed (normal state; see picture 8). No connection between J9-2 and J9-3.

J9-3 is connected to J9-2 when the door is unlocked (during the open time that is set up for the reader, see *4.1.2 Setting up an elevator reader* for details). No connection between J9-3 and J9-4.See picture 8.

J9-1 (normally not used; see picture 8)

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Picture 8

- 1. Connect terminal (4) on the elevator reader to terminal (14) on the relay module.
- 2. Connect terminal (3) on the elevator reader to terminal (13) on the relay module.
- 3. Connect terminal (2) on the elevator reader to terminal (4) on the relay module.
- 4. Connect terminal (1) on the elevator reader to terminal (2) on the relay module.
- 5. Connect terminal (1) on the relay module to the positive terminal (+) on an external power source (regulated voltage in the range 12-24V DC).
- 6. Connect terminal (3) on the relay module to the negative terminal (-) on an external power source (regulated voltage in the range 12-24V DC).
- 7. The remaining terminals on the relay module, (**5-12**) and (**17-24**), are connected in pairs. Each pair forms a relay output which can be connected to the elevator's control system. The pairs are:
 - 5 17
 - 6 18
 - 7 19 8 - 20
 - 9 21
 - 10 22
 - 11 23
 - 12 24

^{8.} Important: Make sure that the address selector (25) on the relay module has got the address "0".

3.2 Connecting the elevator reader to a relay module (2300Win/MC/EC)

Important: Use the same external power supply for the elevator reader and all relay modules, i.e. connect as described in section 3.2 and 3.3. This is to make sure that the ground is common for the elevator reader and all relay modules.

Elevator reader



Four-pole connector J9

Four-pole connector J8

Relay module



The pictures of the elevator reader and the relay module are not of the same scale.

Picture 9

J9 Relay output (see detailed description to the right)

J8	4 3	в А]-	RS485
	2 1	·]-	Regulated voltage in the range 12-24V DC

Note: J9 and J8 are Timelox designations which are not visible on the elevator reader. J9-3 is connected to J9-4 when the door is closed (normal state; see picture 10). No connection between J9-2 and J9-3.

J9-3 is connected to J9-2 when the door is unlocked (during the open time that is set up for the reader, see 4.1.2 Setting up an elevator reader for details). No connection between J9-3 and J9-4.See picture 10.

J9-1 (normally not used; see picture 10)



Picture 10

- 1. Connect terminal (4) on the elevator reader to terminal (14) on the relay module.
- 2. Connect terminal (3) on the elevator reader to terminal (13) on the relay module.
- 3. Connect terminal (2) on the elevator reader to terminal (4) on the relay module.
- 4. Connect terminal (1) on the elevator reader to terminal (2) on the relay module.
- 5. Connect terminal (1) on the relay module to the positive terminal (+) on an external power source (regulated voltage in the range 12-24V DC).
- 6. Connect terminal (3) on the relay module to the negative terminal (-) on an external power source (regulated voltage in the range 12-24V DC).
- 7. The remaining terminals on the relay module, (**5-12**) and (**17-24**), are connected in pairs. Each pair forms a relay output which can be connected to the elevator's control system. The pairs are:
 - 5 17
 - 6 18
 - 7 19
 - 8 20
 - 9 21
 - 10 22
 - 11 23
- **12 24** 8.

Important: Make sure that the address selector (25) on the relay module has got the address "0".

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3.3 Connecting additional relay modules (DC-One/TC/2300Win/MC/EC)

Important: Use the same external power supply for the elevator reader and all relay modules, i.e. connect as described in section 3.1 or 3.2 (depending on product) and 3.3. This is to make sure that the ground is common for the elevator reader and all relay modules.

If more than one relay module should be used, connect them as below:





- *Picture 11* 1. Connect terminal (2) on the first relay module to terminal (2) on the second relay module.
 - 2. Connect terminal (4) on the first relay module to terminal (4) on the second relay module.
 - 3. Connect terminal (13) on the first relay module to terminal (13) on the second relay module.
 - 4. Connect terminal (14) on the first relay module to terminal (14) on the second relay module.
 - 5. The remaining terminals on each relay module, (**5-12**) and (**17-24**), are connected in pairs. Each pair forms a relay output which can be connected to the elevator's control system.

The pairs are:

5 - 17

- 6 18
- 7 19 8 - 20
- 8 20
- 9 21
- 10 22 11 - 23
- 12 24

8.

- 6. Set the address selector (**25**) on the second relay module at address "1". The address selector on the first relay module should still be at address "0".
- 7. If additional relay modules should be added, repeat steps 1-5. The address selector on the third module should be at address "2" etc.

Important: Remove the terminating resistor (26) on all relay modules except for the last one (counted from the reader).

Note: Each address selector must have a unique address and the addresses should come in a consecutive order without any gaps in between, that is 0-1-2 etc.

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4. Initiation, daily use and service functions in DC-One

4.1 Preparing for initiation

When the elevator controller has been mounted and connected according to chapters 2 and 3, the elevator readers and elevator reader relays are set up as doors in the DC-One software. After this is done, an initiation card is issued in DC-One for the elevator reader. When the elevator reader is initiated, the connected relays will automatically be initiated as well.

4.1.1 Setting up an elevator reader relay

For each elevator reader relay, a room interval is set up (for example the guest rooms on a certain floor). It is also possible to assign up to all 28 available common rooms to a relay.

- 1. Double click on **Doors** under the **Lists** tab in the navigation window.
- 2. Click **Add** to add an elevator reader relay. A dialog as in the example in picture 12 is shown.

🔟 Door Details		×
General Advance	a)	
Туре: Na <u>m</u> e:	Elevator Reader Relay	
<u>R</u> oom interval: Ar <u>e</u> a:	101 to 139 First floor Add	
Description:		
Common rooms		
	✓ Garage ✓ Lounge ✓ Pool Sauna	
	<u>N</u> ew Save Cancel	

Picture 12

- 3. At Type, choose Elevator Reader Relay.
- 4. Enter a **Name** for the elevator reader relay.
- 5. At **Room interval**, enter the interval of rooms which are assigned for the relay.
- 6. At **Area**, choose what door area the door shall belong to; should there not be a suitable one, make a new door area by clicking **Add**.
- 7. If desired, enter a **Description**.
- At Common rooms, all doors that have been set up to be of type Guest Common or PMS Common will be shown (see *User manual TimeLox DC-One*, Art. No 865 100 for further information). Mark the appropriate check box(es). Each elevator reader relay can give access to up to all common rooms. Note: The chosen common rooms will only give access to magnetic cards.

If the Open time should be modified (default is 4 seconds – the valid range is 1-30 seconds), go to the Advanced tab (see picture 13) and enter the new open time.
 Note: The choices Allow On/Off cards, Keypad and Inncom on the Advanced tab are not applicable for elevator reader relays.

III Door Details			
General Advanced			
Options			
E Keypad			
	New	Update	Close

Picture 13

10. Click New or Save (or Update, if an existing elevator reader relay was modified).

4.1.2 Setting up an elevator reader

- 1. Double click on **Doors** under the **Lists** tab in the navigation window.
- 2. Click **Add** to add an elevator reader. A dialog as in the example in picture 14 is shown.

🛄 Door Details		×
General Advanced	d	
Туре:	Elevator Reader	l
Na <u>m</u> e:	Elevator reader, main elevator	l
Ar <u>e</u> a:	Elevators, ground floor 💽 Add	l
Description:		l
Relay outputs		l
	Output Name	l
	1 n/a	L
	2 n/a	L
	3 n/a	L
	4 n/a	L
	b n/a	L
		L
	8 n/a	L
		1
	Select Remove	L
		L
		1
	New Save Cancel	1
		1

Picture 14

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- 3. At Type, choose Elevator Reader.
- 4. Enter a **Name** for the elevator reader.
- 5. At **Area**, choose what door area the door shall belong to; should there not be a suitable one, make a new door area by clicking **Add**.
- 6. If desired, enter a **Description**.
- 7. At **Relay outputs**, mark a concerned output and click **Select**. You will get a dialog where the elevator reader relays that have been set up will be shown (see example in picture 15).

🎹 Select Elevator R	eader Relay		×
Name	Door area		
First floor relay Second floor relay Third floor relay	Elevators, ground floor Elevators, ground floor Elevators, ground floor		•
L		<u> </u>	el

Picture 15

- 8. Mark the appropriate relay and click **OK**.
- 9. Repeat steps 7-8 for all concerned relays. The result will be as in the example in picture 16:

Door Details		<u>_ </u>
General Advanced	1	
Туре:	Elevator Reader	
Na <u>m</u> e:	Elevator reader, main elevator	
Ar <u>e</u> a:	Elevators, ground floor 💽 Add	
Description:		_
Relay outputs ——	Dutput Name 1 First floor relay 2 Second floor relay 3 Third floor relay 4 n/a 5 n/a 6 n/a 7 n/a 8 n/a	
	Select Remove	;
	New Save Ca	ancel

Picture 16

© Timelox AB 2005 The information in this document is subject to change without notice, Timelox AB makes a reservation against changes in the performance of the above described product. 865 253b If the Open time should be modified (default is 4 seconds – the valid range is 1-30 seconds), go to the Advanced tab (see picture 17 below) and enter the new open time.

Note: The choices Allow On/Off cards, Keypad and Inncom are not applicable for elevator reader relays.

🔟 Door Details	
General Advanced	
Options	
Allow On/Off cards	
Open time: 4	
New Under	
<u>N</u> ew <u>Update</u>	Liose

Picture 17

11. Click New or Save (or Update, if an existing elevator reader was modified).

4.2 Initiating elevator reader and elevator reader relays

The elevator reader is initiated with an initiation card. The initiation can be performed either before or after the system-ID is set. When an elevator reader is initiated, parameters such as the calendar, the date and time (if that is chosen), elevator reader number, opening time, opening mode and cancel list are transferred. Also parameters for the elevator reader relays that have been set up for the elevator reader are transferred: number, opening time, room interval and common room(s) for each relay.

Note: If only time and date are to be set, this can be done with the HCU. This may be easier than using the initiation card for setting the time and date, since the card must for this purpose be inserted at an exact time (either directly after issuing it, or at a certain time defined when issuing the card, depending on whether "Set time and today's date in lock" or "Set time and date in lock" was chosen when issuing the card, see picture 18).

4.2.1 Issuing an initiation card

Initiation Card		_ 🗆 🗵
General	Doors	
Card holder: Burton, Tim User group: Day staff No. of gays: 180 Expiration time: 9/10/2005 12:00 AM Function Do ngt set time and date in lock. Set time and today's date in lock. Set time and date in lock. Time: 15:00 Datg: 12/10/2004	Basement Garage Lounge Restaurant Sauna Elevator gound floor Elevator reader, annex 1 Elevator reader, annex 2 Elevator reader, main elevator First floor Initialize door Elevator reader, main elevator	A
	<u>M</u> ake card	Close

Picture 18

- 1. Double click on Initiation under the Cards tab in the navigation window.
- 2. Select a card holder by clicking the

____ button;

double click on a name or mark the name and click Select.

3. Choose the expiration time of the card (the default value is one day): enter the number of days for which the card shall be valid, or mark the

✓ button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- 4. Mark the elevator reader that you want to initiate; it will appear in the text field **Initiate door**.
- 5. Choose one of the three date/time options and fill in the fields accordingly.
- 6. Click on Make Card or press F2. Insert a card in the encoder.

4.2.2 Initiating the elevator reader

Insert the card into the elevator reader at the exact time and date that were chosen when the initiation card was issued (if time and date are to be set), since that specific time will be set in the elevator reader. There is a ticking sound while the information is being transferred to the elevator reader. Wait for the signal before pulling the card, or the operation will not be successful. An initiation will be stored as at least two events in the event list to prevent tampering with the time in the elevator reader; one event before the initiation and one event after, and possibly some other events if the initiation causes the door unit status to change.

Note: The initiation card can only be used once, to avoid that two elevator readers are given the same identity.

4.3 Daily use

4.3.1 Assigning individual access (with examples)

Guest cards of different types (Guest cards, Joiner cards etc) will give access to an elevator reader relay/output (corresponding to for example a floor) if the room that is assigned for the card is included in the relay room interval (see 4.1.1 Setting up an elevator reader relay for details). A common room on a guest card will give access to outputs which have the common room assigned.

Note: The common rooms that are assigned to an output will only give access to magnetic cards.

Example: The Guest card below is a magnetic card which will give access to relays which include room 104 in their room intervals, and also to relays which have any of the common rooms *garage*, *lounge* or *restaurant* assigned.

📋 Guest Card		<u> </u>	
General		Guest Entrance/Common rooms	
<u>U</u> ser group:	Guest	☑ Garage	
<u>R</u> oom No.:	104 <u>G</u> roup	Restaurant	
No. of <u>n</u> ights:	1	🗆 Sauna	
Chec <u>k</u> -out time:	3/11/2005 12:00 PM		
No. of car <u>d</u> s:	2		
Issue to:			
Media		Options	
Magnetic Card		Include track <u>2</u> data	
C Smart Card		Clear fields	
		Make card Clo	se

Picture 19

There are alternatives for assigning common access to restaurant floors etc, see 4.3.2 *Assigning common access*.

Staff cards will give access to the elevator reader relays which are marked when issuing the card.

Example: The Staff card in picture 20 on next page will give access to the *first floor relay* and the *second floor relay* (and also to some "ordinary" doors).

General Doors
Card holder: Hanson, Susan User group: Staff No. of gays: 302 Egpiration time: 11/29/2005 12:00 AM Time schedule: (none) Time schedule description Options Clear fields More, Make card Close

Picture 20

Cancel cards and Power Down cards will function as normally.

Blocking cards will block one or more user groups from certain relays (see 4.3.3 *Blocking a user group from an elevator reader relay* for details).

Stand Open cards will set one or more relays in stand open mode (see 4.3.4 Setting an elevator reader relay in stand open mode for details).

One Time cards will not have the one-time-function in the elevator reader, but function as ordinary access cards until they expire.

Note: Emergency cards will activate all outputs connected to the elevator reader.

4.3.2 Assigning common access

For floors that should be accessed by all guest cards, for example a restaurant floor, the concerned output must be set up to accept all cards in the guest room range (see *4.1.1 Setting up an elevator reader relay* for details).

It is also possible to set up 28 *common rooms* for each output (see 4.1.1 Setting up an *elevator reader relay* for details). Restaurants etc. which should be accessed by all guests can be set up as common rooms in the DC-One software (common rooms are all doors that have been set up to be of type **Guest Common** or **PMS Common** - see *User manual TimeLox DC-One*, Art.No 865 100, for details).

Note: The common rooms that are assigned to an output will only give access to magnetic cards.

4.3.3 Blocking a user group from an elevator reader relay

One or more user groups can be blocked from certain elevator reader relays (for example corresponding to certain floors). This is done by issuing a blocking card for the relays that are to be blocked.

Note: The DC-One system can in total have 200 user groups.

Blocking Card	
General	Doors
Card holder: Hanson, Susan User group: Day staff No. of gays: 180 Egyiration time: 9/10/2005 12:00 AM Block User groups Day staff Guest Maintenance Manager Vight staff	■ Basement
Check all Uncheck all	Check all Uncheck all
	Make card Close

Picture 21

- 1. Double click on **Blocking** under the **Cards** tab in the navigation window.
- 2. Select a card holder by clicking the



double click on a name or mark the name and click Select.

3. Choose the expiration time of the card: enter the number of days for which the card shall be valid, or mark the

J button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- At Block User groups, check the user group(s) you want to block.
 Note: All groups except for the ones that are unchecked will be blocked also user groups that are added to the system after the blocking mode has been set in the door unit(s). It is not possible to block the user group to which the card holder belongs.
- 5. At **Doors**, check the relays from which you want to block the user group(s) in this example *first floor relay* and *third floor relay*. Click on the plus sign in front of a door area to expand the area.
- 6. Click on Make Card or press F2. Insert a card in the encoder.

Insert the card in the elevator reader. The concerned relays will be blocked. The relays will be set in blocking mode at the first insertion of the blocking card, and be reset on the second insertion.

Note: The No. of days regards the card's validity, not the validity of the function.

4.3.4 Setting an elevator reader relay in stand open mode

Each elevator reader relay can individually be set in stand open mode. This is done by issuing a stand open card for the relay(s) that should be set in stand open mode.

📑 Stand Open Card	
General	Doors
Card holder: Burton, Tim User group: Day staff No. of gays: 1 Expiration time: 4/77/2005 12:00 AM V Function C Until gext use C Until gext use C Until time is	Basement Grarage Counge Restaurant Sauna First floor relay First floor relay First floor 101 102 103 Check all Uncheck all
	Make card Close

Picture 22

- 1. Double click on **Stand Open** under the **Cards** tab in the navigation window.
- 2. Select a card holder by clicking the

button;

double click on a name or mark the name and click Select.

3. Choose the expiration time of the card: enter the number of days for which the card shall be valid, or mark the

button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- 4. For elevator reader relays, only the default type "Until next use" is applicable at "Function".
- 5. At **Doors**, check the relay(s) you want to set in stand open mode (in this example *second floor relay*, and also the "*ordinary*" door *lounge*). Click on the plus sign in front of a door area to expand the area.
- 6. Click on Make Card or press F2. Insert a card in the encoder.

Insert the card in the elevator reader. The concerned relays will be set in stand open mode. The relays will be set in stand open mode at the first insertion of the stand open card, and be reset on the second insertion.

Note: The No. of days regards the card's validity, not the validity of the function.

4.4 Service functions

4.4.1 Read-out

It is possible to read out the access list from an elevator reader - it is however not possible to see which of the outputs that were opened. The elevator reader can store 100 events.

Read-out with HCU

- Go to the applicable HCU menu 2.2.1 Complete LockLog, 2.2.2 Error LockLog, 2.2.3 Access LockLog or 2.2.4 Parameters (press Enter to reach the Main menu, press 2 Door unit menu, then press 2 Read-out menu and your choice, for example 1 Complete LockLog).
- 2. Follow the instructions on the HCU screen.

Read-out with card

Issuing a read-out card (or read-out card advanced) in the DC-One software:

- 1. Double click on **Read-out** (or, if applicable, **Read-out Advanced**) under the **Cards** tab in the navigation window.
- 2. Make the appropriate choices/enter the appropriate fields etc in the card dialog.
- 3. For cards of type **Read-out Advanced**, it is possible to read only new events, i.e. events that have not been marked as read in the elevator reader. In this case, check **Only new events**. In order to read only new events, check **Mark events as read**.
- 4. When all information has been entered, click on **Make Card** or press **F2**. Insert a card in the encoder.

Making a read-out:

1. Insert the card in the elevator reader to make a read-out; there is a ticking sound while the information is being transferred to the card. Wait for the signal before pulling the card or the operation will not be successful. One read-out card can be used in several elevator readers. When the card is full, a signal will alert the user.

Transferring the information to the Timelox PC for processing:

- 1. Click on the icon Read Events from Card (or, if applicable, Read Parameters from Card) and insert the card in the encoder.
- 2. Click **Read card** to see the fetched events (or parameters). The events/parameters can only be fetched from the card once, then they are erased from the card; they can however be read out from the door unit again.

4.4.2 Power open

It is not possible to perform a power open on an elevator controller if there is a failure in the elevator controller's external power supply.

5 Initiation, daily use and service functions in TC

5.1 Preparing for initiation in TC

When the elevator controller has been mounted and connected according to chapters 2 and 3, the elevator readers and elevator reader relays are set up as doors in the TC software. After this is done, an initiation card is issued in TC for the elevator reader. When the elevator reader is initiated, the connected relays will automatically be initiated as well.

5.1.1 Setting up an elevator reader relay

Each elevator reader relay is set up as a door.

- 1. Double click on **Doors** under the **Lists** tab in the navigation window.
- 2. Click **Add** to add an elevator reader relay. A dialog as in the example in picture 23 is shown.

🔟 Door Details				
General Options Advanced Indication	General Type of door: Name: Area: Description: Open time:	Elevator Reader Relay Floor 1 Elevators • 4 seconds	Add	Cancel

Picture 23

- 3. At Type of door, choose Elevator Reader Relay.
- 4. Enter a **Name** for the elevator reader relay.
- 5. At **Area**, choose what door area the door shall belong to; should there not be a suitable one, make a new door area by clicking **Add**.
- 6. If desired, enter a **Description**.
- 7. If applicable, modify the **Open time** (the default is 4 seconds; the open time can be 1-30 seconds).

Note: The tabs Options, Advanced and Indication are not applicable for elevator reader relays.

8. Click New or Save (or Update, if an existing elevator reader relay was modified).

5.1.2 Setting up an elevator reader

- 1. Double click on **Doors** under the **Lists** tab in the navigation window.
- 2. Click **Add** to add an elevator reader. A dialog as in the example in picture 24 is shown.

IIII Door Details			
General	General		
Options	Type of door: Elev	vator Reader 🔽	
- Advanced	Name: Mair	n elevator	
	Area: Elev	vators	Add
	Description:		
	Open time: 4	seconds	
	open diter 1	00001100	
	Relay outputs		
	Out	tput Name	
	1	1 n/a	
	3	2 n/a 3 n/a	
	4	4 n/a 5 n/a	
	e	6 n/a	
		7 n/a 8 n/a	_
			Select Remove
1			
		New	Save Cancel

Picture 24

- 3. At Type of door, choose Elevator Reader.
- 4. Enter a **Name** for the elevator reader.
- 5. At **Area**, choose what door area the door shall belong to; should there not be a suitable one, make a new door area by clicking **Add**.
- 6. If desired, enter a **Description**.
- 7. If applicable, modify the **Open time** (the default is 4 seconds; the open time can be 1-30 seconds).
- 8. At **Relay outputs**, mark a concerned output and click **Select**. You will get a dialog where the elevator reader relays that have been set up will be shown (see the example in picture 25).

Name	Door area		
loor 3 relay	Elevators		
noor∠relay	Elevators		
nuur relay	Elevaroi2		

Picture 25

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- 9. Mark the appropriate relay and click **OK**.
- 10. Repeat steps 8-9 for all concerned relays. The result will be as in the example in picture 26:

🎹 Door Details		
General Options Advanced Indication	General Type of door: Elevator Reader Name: Main elevator Area: Elevators Description: Open time: 4 seconds Relay outputs	
	Output Name 1 Floor 1 relay 2 Floor 2 relay 3 Floor 3 relay 4 n/a 5 n/a 6 n/a 7 n/a 8 n/a Select New Save	Remove Cancel

Picture 26

Note: The tabs **Options**, **Advanced** and **Indication** are not applicable for elevator reader relays.

11. Click New or Save (or Update, if an existing elevator reader was modified).

5.2 Initiating elevator reader and elevator reader relays

The elevator reader is initiated with an initiation card. The initiation can be performed either before or after the system-ID is set. When an elevator reader is initiated, parameters such as the calendar, the date and time (if that is chosen), elevator reader number, opening time, opening mode and cancel list are transferred. Also parameters for the elevator reader relays that have been set up for the elevator reader are transferred: number, opening time, room interval and common room(s) for each relay.

Note: If only time and date are to be set, this can be done with the HCU. This may be easier than using the initiation card for setting the time and date, since the card must for this purpose be inserted at an exact time (either directly after issuing it, or at a certain time defined when issuing the card, depending on whether "Set time and today's date in lock" or "Set time and date in lock" was chosen when issuing the card, see picture 27).

5.2.1 Issuing an initiation card

Initiation Card	
General	Doors
Card holder: Larsen, Mark User group: Finance No. of gays: 2 Expiration time: 3/11/2005 12:00 AM Function Do got set time and date in lock. Set time and today's date in lock. Set time and date in lock. Time: 3:00 PM Datg: 3/11/2005	Common areas Conference rooms Development Elevators Elevator, building B Elevator, building C Main elevator Conference Co
	<u>M</u> ake card Close

Picture 27

- 1. Double click on Initiation under the Cards tab in the navigation window.
- 2. Select a card holder by clicking the

button; double click on a name or mark the name and click **Select**.

3. Choose the expiration time of the card (the default value is one day): enter the number of days for which the card shall be valid, or mark the

button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- 4. Mark the elevator reader that you want to initiate; it will appear in the text field **Initialize door**.
- 5. Choose one of the three date/time options and fill in the fields accordingly.
- 6. Click on Make Card or press F2. Insert a card in the encoder.

5.2.2 Initiating the elevator reader

Insert the card into the elevator reader at the exact time and date that were chosen when the initiation card was issued (if time and date are to be set), since that specific time will be set in the elevator reader. There is a ticking sound while the information is being transferred to the elevator reader. Wait for the signal before pulling the card, or the operation will not be successful. An initiation will be stored as at least two events in the event list to prevent tampering with the time in the elevator reader; one event before the initiation and one event after, and possibly some other events if the initiation causes the door unit status to change.

Note: The initiation card can only be used once, to avoid that two elevator readers are given the same identity.

5.3 Daily use (with example)

User cards will give access to the elevator reader relays which are marked when issuing the card.

Example: The User card for Tim Carlton in picture 28 will give access to the relays for floor 1 relay and floor 3 relay (and also to some other "ordinary" doors).



Picture 28

Cancel cards will function as normally.

Blocking cards will block one or more user groups from certain relays (see 5.3.1 *Blocking a user group from an elevator reader relay* for details).

Stand Open cards will set one or more relays in stand open mode (see 5.3.2 Setting an elevator reader relay in stand open mode for details).

Note: Emergency cards and **Grand Master cards** will activate all outputs connected to the elevator reader.

Visitor cards and Revoke Passage cards cannot be issued for elevator readers/ elevator reader relays.

5.3.1 Blocking a user group from an elevator reader relay

One or more user groups can be blocked from certain elevator reader relays (for example corresponding to certain floors). This is done by issuing a blocking card for the relays that are to be blocked.

Note: The TC system can in total have 200 user groups.

Blocking Card			
General		- Doors	
Card holder: Link User group: Log No. of days: 2 Expiration time: 3/1 Block User groups Development Finance Logistics Marketing Production Visitors	on, Sarah	Common areas Conference rooms Development Elevators Floor 1 relay Floor 2 relay Floor 3 relay Conferences Finance Cogistics Marketing E- Production	S
Check all	Uncheck all	Check all	Uncheck all
		Ma	ke card Close

Picture 29

- 1. Double click on **Blocking** under the **Cards** tab in the navigation window.
- 2. Select a card holder by clicking the

button; double click on a name or mark the name and click **Select**.

3. Choose the expiration time of the card: enter the number of days for which the card shall be valid, or mark the

button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- At Block User groups, check the user group(s) you want to block.
 Note: All groups except for the ones that are unchecked will be blocked also user groups that are added to the system after the blocking mode has been set in the door unit(s). It is not possible to block the user group to which the card holder belongs.
- 5. At **Doors**, check the relays from which you want to block the user group(s) (in this example *floor 2 relay*). Click on the plus sign in front of a door area to expand the area.
- 6. Click on **Make Card** or press **F2**. Insert a card in the encoder.

Insert the card in the elevator reader. The concerned relays will be blocked. The relays will be set in blocking mode at the first insertion of the blocking card, and be reset on the second insertion.

Note: The No. of days regards the card's validity, not the validity of the function.

5.3.2 Setting an elevator reader relay in stand open mode

Each elevator reader relay can individually be set in stand open mode. This is done by issuing a stand open card for the relay(s) that should be set in stand open mode.

📑 Stand Open Card	
General	Doors
Card holder:	Common areas Gym Ulbrary Ulbr
	Make card Close



- 1. Double click on **Stand Open** under the **Cards** tab in the navigation window.
- 2. Select a card holder by clicking the

button;

double click on a name or mark the name and click Select.

3. Choose the expiration time of the card: enter the number of days for which the card shall be valid, or mark the

button

next to the **Expiration time** field and mark a date in the calendar (or enter a date manually). The chosen date will appear at **Expiration time**; the number of days will change accordingly.

- 4. For elevator reader relays, only the default type "Until next use" is applicable at "Function".
- 5. At **Doors**, check the relay(s) you want to set in stand open mode (in this example *floor 3 relay*, and also the "*ordinary*" doors *library* and *lunch room*). Click on the plus sign in front of a door area to expand the area.
- 6. Click on Make Card or press F2. Insert a card in the encoder.

Insert the card in the elevator reader. The concerned relays will be set in stand open mode. The relays will be set in stand open mode at the first insertion of the stand open card, and be reset on the second insertion.

Note: The No. of days regards the card's validity, not the validity of the function.

5.4 Service functions

5.4.1 Read-out

It is possible to read out the access list from an elevator reader - it is however not possible to see which of the outputs that were opened. The elevator reader can store 100 events.

Read-out with HCU

- Go to the applicable HCU menu 2.2.1 Complete LockLog, 2.2.2 Error LockLog, 2.2.3 Access LockLog or 2.2.4 Parameters (press Enter to reach the Main menu, press 2 Door unit menu, then press 2 Read-out menu and your choice, for example 1 Complete LockLog).
- 2. Follow the instructions on the HCU screen.

Read-out with card

Issuing a read-out card (or read-out card advanced) in the TC software:

- 1. Double click on **Read-out** (or, if applicable, **Read-out Advanced**) under the **Cards** tab in the navigation window.
- 2. Make the appropriate choices/enter the appropriate fields etc in the card dialog.
- 3. For cards of type **Read-out Advanced**, it is possible to read only new events, i.e. events that have not been marked as read in the elevator reader. In this case, check **Only new events**. In order to read only new events, check **Mark events as read**.
- 4. When all information has been entered, click on **Make Card** or press **F2**. Insert a card in the encoder.

Making a read-out:

1. Insert the card in the elevator reader to make a read-out; there is a ticking sound while the information is being transferred to the card. Wait for the signal before pulling the card or the operation will not be successful. One read-out card can be used in several elevator readers. When the card is full, a signal will alert the user.

Transferring the information to the Timelox PC for processing:

- 1. Click on the icon Read Events from Card (or, if applicable, Read Parameters from Card) and insert the card in the encoder.
- 2. Click **Read card** to see the fetched events (or parameters). The events/parameters can only be fetched from the card once, then they are erased from the card; they can however be read out from the door unit again.

5.4.2 Power open

It is not possible to perform a power open on an elevator controller if there is a failure in the elevator controller's external power supply.

6 Initiation, daily use and service functions in 2300Win

6.1 Initiating elevator reader and elevator reader relays

When the elevator controller has been mounted and connected according to chapters 2 and 3, the elevator reader relays are set up as outputs in the handheld communication unit (HCU). When the elevator reader is initiated with the HCU, the connected relays will automatically be initiated as well.

Note: Version 2.17 or higher of the HCU is required.

- 1. If this has not been done before, set up an appropriate COM port for the HCU in the 2300Win software: go to File/Select Devices. Choose the appropriate COM port at "HCU" and click OK.
- 2. Connect the HCU to the COM port that you have set up in 2300Win.
- 3. Enter the HCU menu **1.4 Set-up from comp.** (press Enter to reach the Main menu, press **1 Set-up menu** and Enter, press **4 Set-up from comp.** and Enter).
- 3. Go to **File/Setup HCU** in the 2300Win software and click **Continue**. The door list will now be transferred from 2300Win to the HCU.
- 4. Enter the HCU menu 2.1.1 Initiate Direct (press Enter to reach the Main menu, press 2 Door unit menu and Enter, press 1 Initiation menu and Enter, press 1 Initiate direct and Enter).
- 5. Choose **11 Elevator** and press **Enter**. You will get a screen as in picture 31. If a setup has been done before, the outputs that have been set up are listed at "Set-up done for".

* ELEVATOR	*
OUTPUT NO. (1-128):	_
SET-UP DONE FOR:	
CLEAR TIME	INIT

Picture 31

6. The default opening time which shall be used for the elevator controller is 4 000 ms – if this is to be changed, press the soft button **Time** (found below **Time** shown in picture 32). The opening time can be in the range 100 - 25 000 ms. Enter the desired time and press **Enter**.

Note: The opening time is common for all outputs of an elevator reader.

7. Enter an output number between 1 and 128 (see the example in picture 32).

* OUTPUT I SET-UP C	ELEVATOR NO. (1-128): 1 DONE FOR:	*
CLEAR	TIME	INIT

Picture 32

8. Press Enter. You will get the screen shown in picture 33. At Room from, enter the first room in the room interval that is to be included for this output. Press Enter. At Room to, enter the last room in the room interval that is to be included for this output. Press Enter.

	π Π
ROOM TO :	Ő
COMMON ROOM 1 : N	10
COMMON ROOM 2 : N	10
COMMON ROOM 3 : N	10
COMMON ROOM 4 : N	10
COMMON ROOM 5 : N	10
COMMON ROOM 6 : N	10
COMMON ROOM 7 : N	10
COMMON ROOM 8 : N	10
CLEAR	SAVE

Picture 33

9. The text **Change 1-8** will appear below common room 8. For each common room that is to be included, enter the number of the common room at **Change 1-8** and confirm with **Enter**. The chosen common rooms will be marked with **Yes** (see picture 34).

* ELEVATOR *	
ROOMFROM :101	
ROOMTO :110	
COMMON ROOM 1 : NO	
COMMON ROOM 2 : NO	
COMMON ROOM 3 : YES	
COMMON ROOM 4 : NO	
COMMON ROOM 5 : YES	
COMMON ROOM 6 : NO	
COMMON ROOM 7 : NO	
COMMON ROOM 8 : NO	
CHANGE (1-8):	
CLEAR	SAVE

Picture 34

- 10. If you need to change **Yes** to **No** again for a common room, enter the common room number at **Change 1-8** and confirm with **Enter**. If you need to clear all entered information for the output, press the soft button **Clear** (found below **Clear** shown in picture 34).
- 11. When all set-ups for the output have been done, click the soft button **Save** (found below **Save** shown in picture 34).
- 12. If more outputs should be set up, repeat steps 7-11 for each output.
- 13. All outputs that have been set up will be listed (see the example in picture 35).

```
* ELEVATOR *
OUTPUT NO.(1-128): _
SET-UP DONE FOR:1-11,
CLEAR TIME INIT
```

Picture 35

- 14. When data for all outputs has been entered, press the soft button **Init** (found below **Init** shown in picture 35).
- 15. Follow the instructions on the HCU screen. The data will be transferred to the elevator controller.
- 16. To modify the set-up for an output, the output must be chosen again as in step 7. Enter the modified data according to steps 8-11. Follow steps 14-15 to initiate the elevator controller.

The HCU saves the last initiation data for later use. If more elevator controllers should be initiated with the same or similar data, a new initiation is made with the stored data (if desired after modification). The HCU can only store one set of elevator initiation data. If changes in initiation data have been made, the new data is stored and the previous data is erased.

6.1.1 Clearing all initiation data from the HCU

- 1. Press the soft button Clear (found below Clear shown in picture 35.
- 2. You will get the question "Do you want to clear all initiation data for elevators?"
- 3. Press the soft button **Yes** to confirm this.

6.2 Daily use

6.2.1 Assigning individual access (with examples)

Guest cards will give access to the output corresponding to the guest's room.

Note: For guest access to floors with rooms such as restaurants, see 6.2.2 Assigning common access.

Staff cards will give access according to the card, with room intervals etc.

Cancel cards and Power Down cards will function as normally.

One Time cards will not have the one-time-function in the elevator reader, but function as ordinary access cards until they expire.

Note: Emergency cards will activate all outputs.

There are a few cards in the 2300Win system which will not function in the elevator reader:

- Blocking cards for Suite cards
- Clearance cards
- Privacy cards
- Stand Open cards

6.2.2 Assigning common access

For floors that should be accessed by all guest cards, for example a restaurant floor, the concerned output must be set up to accept all cards in the guest room range (see *6.1 Initiating elevator reader and elevator reader relays* for detailed information).

It is also possible to set up 8 *common rooms* for each output (see 6.1 *Initiating elevator reader and elevator reader relays* for detailed information). Restaurants etc. which should be accessed by all guests can be set up as general common rooms in the 2300Win software (Go to **Tools/Options/Guest cards** and check the common room(s) which should automatically be included on all guest cards).

6.3 Service functions

6.3.1 Read-out

It is possible to read out the access list from an elevator reader – it is however not possible to see which of the outputs that have been opened. The elevator reader can store 100 events.

- 1. Go to 2.2.1 Read-out 100 in the HCU (press Enter to reach the Main menu, press 2 Door unit menu and Enter, press 2 Read-out menu and Enter, press 1 Read-out 100).
- 2. Follow the instructions on the HCU screen.

6.3.2 Power open

It is not possible to perform a power open on an elevator controller if there is a failure in the elevator controller's external power supply.

7 Initiation, daily use and service functions in MC/EC

7.1 Initiating elevator reader and elevator reader relays

When the elevator controller has been mounted and connected according to chapters 2 and 3, the elevator reader relays are set up as outputs in the handheld communication unit (HCU). When the elevator reader is initiated with the HCU, the connected relays will automatically be initiated as well.

Note: Version 2.18 or higher of the HCU is required.

Note: Before starting to initiate your elevator reader(s), have a look at 7.2.1 Examples of how to assign access for tips about how to set up the different outputs for different applications.

- 1. If this has not been done before, set up an appropriate COM port for the HCU in the MC/EC software: go to File/Select Devices. Choose the appropriate COM port at "HCU" and click OK.
- 2. Connect the HCU to the COM port that you have set up in MC/EC.
- 3. Enter the HCU menu 2.1.1 Read Init. Data (press Enter to reach the Main menu, press 2 Door unit menu and Enter, press 1 Initiation menu and Enter, press 1 Read Init. Data and Enter).
- 4. Go to File/Setup HCU in the MC/EC software and click Transfer. The door list will now be transferred from MC/EC to the HCU.
- 5. Enter the HCU menu 2.1.4 Initiate elevator (press Enter to reach the Main menu, press 2 Door unit menu and Enter, press 1 Initiation menu and Enter, press 4 Initiate elevator and Enter).
- 6. You will get a screen as in picture 36. If a set-up has been done before, the outputs that have been set up are listed at "Set-up done for".

* E	LEVATOR	*
OUTPUT NO	. (1-128):	_
SET-UP DOI	NE FOR:	
CLEAR	PARAM	INIT

Picture 36

7. If pressing the soft button **Param** (found below **Param** shown in picture 36), some parameters can be modified:

* ELI	EVATOR	×
USE LTZ OPEN MODE OPEN TIME	:	YES 0 4000
YES	NO	SAVE

Picture 37

- whether *lock time zones* should be used or not (default is **Yes**)

- *open mode* (default is **0**, that is "door unit unlocks after card has been inserted and locks after <open time> seconds", see next page for a description of all possible open modes)

- *open time* (the default open time which shall be used for the elevator controller is **4 000** ms – the opening time can however range from 100 to 25 000 ms

Press Enter to jump to the next parameter.

Note: The use of lock time zones, the open mode and the open time are common for all outputs of an elevator reader.

Open modes

1 – door unit unlocks and gives a signal after card has been ejected and locks after <open time> seconds

2 – door unit gives a signal after card has been inserted, unlocks after card has been ejected and locks after <open time> seconds

3 – door unit unlocks after card has been inserted and locks after <open time> seconds when card has been ejected

8. Enter an output number between 1 and 128 (see the example in picture 38).

* ELEV	ATOR *	
OUTPUT NO. (1-	128): 1	
SET-UP DONE F	FOR:	
CLEAR P/	ARAM	INIT

Picture 38

9. Press Enter. You will get the screen shown in picture 39. At Door No., enter the number of the door that is to be included for this output. Press Enter.

* ELEVATOR *			
DOOR NO.	:	0	
SECTION 1 SECTION 2 SECTION 3 SECTION 4 SECTION 5 SECTION 6 SECTION 7 SECTION 8		- - - - - - - - - - - - - - - - - - -	NO NO NO NO NO NO
CLEAR	9-16		SAVE

Picture 39

Note: Make sure to use the same door numbers for the same doors when initiating the elevator reader and when setting up doors in the EC/MC software (see 7.2.1 *Examples of how to assign access* for more information).

10. The text **Change (1-8)** will appear below section 8. For each section that is to be included (not applicable for EC), enter the section number at **Change (1-8)** and confirm with **Enter**. The chosen sections will be marked with **Yes** (see the example in picture 40).

* ELEVATOR	*	
DOOR NO.	1	
SECTION 1 SECTION 2 SECTION 3 SECTION 4 SECTION 5 SECTION 6 SECTION 7 SECTION 8 CHANGE (1-8):		NO YES YES YES NO NO NO
CLEAR 9-16		SAVE

Picture 40

- If you need to change Yes to No again for a section, enter the section number at Change 1-8 and confirm with Enter. If you need to clear all entered information for the output, press the soft button Clear (found below Clear shown in picture 40).
- 12. If any of the sections 9-16 should be included (not applicable for EC), press the soft button 9-16 (found below 9-16 in picture 40). Press Enter to confirm the door number.

* ELE	ATOR *
DOOR NO.	: 1
SECTION 9 SECTION 10 SECTION 11 SECTION 12 SECTION 13 SECTION 14 SECTION 15 SECTION 16 CHANGE (9-18	: NO : NO : NO : NO : NO : NO : NO : NO
CLEAR	1-8 SAVE

Picture 41

- 13. The text **Change (9-16)** will appear below section 16 (see picture 41). For each section that is to be included, enter the section number at **Change (9-16)** and confirm with **Enter**. The chosen sections will be marked with **Yes**.
- 14. If you need to change Yes to No again for a section, enter the section number at Change 9-16 and confirm with Enter. If you need to clear all entered information for the output, press the soft button Clear (found below Clear shown in picture 41).
- 15. When all set-ups for the output have been done, click the soft button **Save** (found below **Save** shown in pictures 40 and 41).
- 16. If more outputs should be set up, repeat steps 8-15 for each output.
- 17. All outputs that have been set up will be listed (see the example in picture 42).

* ELEVATOR *	
OUTPUT NO. (1-128) :	_
SET-UP DONE FOR:1-	8,
CLEAR PARAM INIT	

Picture 42

- 18. When data for all outputs has been entered, press the soft button **Init** (found below **Init** shown in picture 42).
- 19. Follow the instructions on the HCU screen. The data will be transferred to the elevator controller.
- 20. To modify the set-up for an output, the output must be chosen again as in step 8. Enter the modified data according to steps 9-15. Follow steps 18-19 to initiate the elevator controller.

The HCU saves the last initiation data for later use. If more elevator controllers should be initiated with the same or similar data, a new initiation is made with the stored data (if desired after modification). The HCU can only store one set of elevator initiation data. If changes in initiation data have been made, the new data is stored and the previous data is erased.

7.1.1 Clearing all initiation data from the HCU

- 4. Press the soft button **Clear** (found below **Clear** shown in picture 42).
- 5. You will get the question "Do you want to clear all initiation data for elevators?"
- 6. Press the soft button **Yes** to confirm this.

7.2 Daily use

For every output, it is possible to set up one door number that shall be granted access. It is also possible to pick up to 16 sections (not applicable for EC).

User cards will give access to outputs that correspond to any of the door numbers on the card.

Member cards will give access to outputs that correspond to any of the door numbers on the card, if the Member card is valid on the present day of the week.

Cancel cards, Communication cards, Daylight saving time cards and **Standard time cards** function as normal. The functionality is however performed generally for all outputs, not for individual outputs.

Lock time zones (if applicable) and **blocking** are general for all outputs – a card that is blocked is locked out from all outputs, and all lock time zones are general for all outputs. As above, **cancellation** is general for all outputs.

Note: Emergency cards and Grand Master cards will activate all outputs.

There are a few cards in the MC/EC system which will not function in the elevator reader:

- Stand Open cards
- Personal Door Control cards
- Local cards or codes
- Revoke Passage cards

7.2.1 Examples of how to assign access

Example 1:

(The door number examples are from MC, but this example is applicable for EC as well). An office building in three floors is used by three different companies. One MC (or EC) system is used by the reception at the ground floor for all three companies.

- In this example, the relays (outputs) are connected to the elevator control panel.
- When a card which opens relay 1 is inserted in the elevator reader, the push button for floor 1 on the elevator control panel will lighten up.
- Access to "door" 1001 (Elevator button 1) actually means access to floor 1, access to "Elevator button 2" means access to floor 2 etc.



HCU:

When setting up relay (output) 1 in the HCU according to 7.1 *Initiating elevator reader and elevator reader relays*, the door number entered (see picture 44) should be 1001. No sections are set up for the relay. The "door" 1001 (Elevator button 1) is not a physical door. A card with access to "Elevator button 1" will however open relay 1, which in turn gives the card holder access to floor 1.

* EI DOOR NUM	LEVATO MBER	۲. :	+ 1001
SECTION	1	:	NO
SECTION	2 3	:	NO NO
SECTION	# 5 6	:	NO NO
SECTION	0 7 8	:	NO NO NO
	-		

Picture 44

Relay 2 should be set up with door 2001 (no sections), and relay 3 with door 3001 (no sections).

MC software:

The employees at company 1, located on floor 1, should from the elevator only have access to relay 1, that is "door" 1001. The employees at company 2 should from the elevator only have access to relay 2 ("door 2001") and the employees at company 3 to relay 3 ("door 3001").

When issuing a card in the MC software to an employee of company 1 (see picture 45), assign access to door 1001 but also to the employee's own room etc (for example door 1003). When the employee inserts his card in the elevator reader, the push button for floor 1 on the elevator control panel will lighten up. When the employee should access his own room etc, he inserts his card in this particular door.

Note: Make sure that the doors 1001, 2001 and 3001 in the MC software are dedicated for the relays and not set up as "ordinary" doors.

User Card					_	
Users	Common doors		Se	ction		
E Company 1 Anderson, Tom (Ia) Brown, Azme (Ja) Marden, Steven (Im) Fastal Content on the	0001 0002 0003 0004	0005 0006 0007 0008	eccc	None Floor 1 Floor 2 Floor 3		
System Annual (s) System Annual (s) Compore 2 Batton, Timode (b) Hall, Thomas (b) Swath, Asches (a) Wesley, Kahn (s) Wesley, Kahn (s) Wesley, Kahn (s) Hall, Annual (b) Hall, Annual (b) Hardw, Thomas (b) Hardw, Thomas (b)	Company 1 Elevator Exitorn 1 (1001) Steven's allice (1002) Sopèrie 1 dice (1003) Anne's attice (1004) Tom's office (1005) Lunch nom (1006) 1008	Company 2 Company 3	Division D Division	E Division F	Division G Division	nН
Johnson, Mary (mj)	Division A Area 1 1101 1110 1110 1110 1110 1110 1110 1	Division A. Division A.	Division A	Division A [Invision A Division	1
Bitwite Card fines zone No. of days: 180 Stations: Egistation time IP (B) day Stations: Egistation time 10/26/2005 12:00.6M Stop time Stop time	=					
			Save	<u>Make c</u>	ard Hide	

Picture 45

Example 2:

(This example is only applicable for MC). A company hires all three floors in an office building, but each employee may only access the floor he is working at. The company management can however access all floors.

- In this example, the relays (outputs) are connected to the elevator control panel.
- When a card which opens relay 1 is inserted in the elevator reader, the push button for floor 1 on the elevator control panel will lighten up.
- Access to "door" 1001 (Elevator button 1) actually means access to floor 1, access to "door" 2001 (Elevator button 2) means access to floor 2 etc.
- Access to section 1 gives access to floor 1 and all doors on floor 1.



HCU:

Relay 3 = 3001 Section 3 = YES

Relay 2 = 2001

Section 2 = YES Relay 1 = 1001 Section 1 = YES

When setting up relay (output) 1 in the HCU according to 7.1 *Initiating elevator reader and elevator reader relays*, the door number entered (see picture 47) should be 1001. Also section 1 should be included when setting up relay 1. For relay 2, door 2001 and section 2 should be included. For relay 3, door 3001 and section 3 should be included.

* ELEVATOR *				
DOOR NUMBER	: 1001			
SECTION 1	: YES			
SECTION 2	: NO			
SECTION 3	: NO			
SECTION 4	: NO			
SECTION 5	: NO			
SECTION 6	: NO			
SECTION 7	: NO			
SECTION 8	: NO			

Picture 47

MC software:

Include the doors on floor 1 (1002-1006) and also the "door" 1001 in section 1, the doors on floor 2 (2002-2006) and "door" 2001 in section 2 and the doors on floor 3 (3002-3006) and "door" 3001 in section 3. The persons in the management should have Section cards which give access to all three floors and all doors on each floor.

Note: Make sure that the doors 1001, 2001 and 3001 in the MC software are dedicated for the relays and not set up as "ordinary" doors.

Section Card				_ D ×
Card hold User grou No. of day Expiration tim Card time zone – I⊄ <u>A</u> ll day Start tim Stop tim	#: Barton, Joanna p: Management s: 180 e: 9/10/2005 12:00 AM e:	<u>B</u> rowse	Sections ✓ Floor 1 ✓ Floor 2 ✓ Floor 3 Section 5 Section 5 Section 7 Section 9 Section 10 Section 11 Section 11 Section 13 Section 14 Section 15 Section 16 Check all	Uncheck all
			<u>M</u> ake car	d Close



As in example 1, the employees who work on floor 1 should from the elevator only have access to relay 1, that is elevator button 1. The employees at floor 2 should from the elevator only have access to relay 2 (elevator button 2) and the employees at company 3 to relay 3 (elevator button 3).

When issuing a User card in the MC software to an employee at floor 1, assign access to elevator button 1 but also to the employee's own room etc (for example door 1003). When the employee inserts his card in the elevator reader, the push button for floor 1 on the elevator control panel will lighten up. When the employee should access his own room etc, he inserts his card in this particular door.

7.3 Service functions

7.3.1 Read-out

It is possible to read out the access list from an elevator reader – it is however not possible to see which of the outputs that have been opened. The elevator reader can store 100 events.

- 1. Go to 2.2.1 Read-out 100 in the HCU (press Enter to reach the Main menu, press 2 Door unit menu and Enter, press 2 Read-out menu and Enter, press 1 Read-out 100).
- 2. Follow the instructions on the HCU screen.

7.3.2 Power open

It is not possible to perform a power open on an elevator controller if there is a failure in the elevator controller's external power supply.

Appendix: Quick reference of technical data

Cut-out for elevator reader (WxH):

111,5 x 80 mm (4 7/16 x 3 3/16 inches)

Cut-out for reader slot (WxH):

55,5 x 5,5 mm (2 3/16 x 1/4 inches)

Dimensions, elevator reader (WxHxD):

67 x 92 x Max 60 mm (2 5/8 x 3 5/8 x 2 3/8 inches)

Dimensions, relay module with DIN rail (WxHxD):

100 x 67,8+0,2 x 75 mm (3 15/16 x 2 3/4 x 3 inches)

Electrical specification:

- External power supply of regulated voltage in the range 12-24 V DC
- Maximum current consumption for the elevator reader: 100 mA continuously
- Maximum current consumption for each relay module: 100 mA continuously
- 8 outputs per relay module
- Maximum 128 outputs
- RS-485 standard for the serial interface connecting the different modules
- If the distance from elevator reader to relay module is > 20 metres, shielding is required. The shield should be connected to protective ground at one end.

Backup battery:

- 9 V alkaline (included at delivery)
- Exchange every three years

Relay module:

- Timelox recommends that the relay module is purchased together with a mounting rack for fastening with or without DIN rail
- The rack is delivered with Weidmüller gables AP 80 D (2 pcs) and enclosed are also Weidmüller clips RF 180 (2 pcs). The clips are used for fastening on the DIN rail.

HCU:

- DC-One/TC: Any HCU version can be used
- 2300Win: Version 2.17 or higher is required
- *MC/EC*: Version 2.18 or higher is required

Timelox software:

- DC-One: Version 1.6 or higher is required
- *TC*: Version 1.4 or higher is required
- 2300Win: Any software version can be used
- *MC/EC*: Any software version can be used