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INSYS
MICROELECTRONICS

Lösungen für mehr Sicherheit

EloStar time

User manual

VdS

**EN 1300
M 102301
Class 2/B**

Table of contents

EloStar time

Safety notes

- *Immediately change the factory-set master CODE **1 2 3 4 5 6** for security reasons.*
- *Do not use any personal data for your new CODE such as birthdays or other information that could be guessed from knowledge about you.*
- *After entering your new CODE, open and close the electronic lock several times with your PIN and new CODE while the door is open.*
- *You can always cancel an entry that you have started with the ⎡C⎤ key.*

1. Opening the lock

Opening with a code

⎡0⎤   Enter your user number (0 = master code)
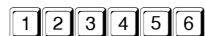
⎡1⎤⎡2⎤⎡3⎤⎡4⎤⎡5⎤⎡6⎤   ☼   ♫   Enter the opening code

If a power interruption has occurred, e.g. battery change, the code has to be entered **twice**.

If a signal sequence sounds after you have entered your user number, the lock is blocked for access:

- A time program is active
- Lock blocked by master
- Lock blocked by a connected burglar alarm system, for example

When the lock is open, the green LED flashes every second (only when the function "Automatic locking after 10 sec." is activated). In this state, all functions of the lock can be programmed. (See Programming the lock)

2. Locking the lock

Three options are provided for locking the lock:

- Locking by pressing a key (default setting)
- Locking via door switch/boltwork switch
- Automatic locking after 10 seconds

The lock is locked by pressing a key (except for C and * key) as the default setting. In order to activate one of the two other options, the lock has to be programmed correspondingly. The programming can either be done via the keypad (see Chapter 3. Programming the lock) or via the PC software CombiComm (not included in the scope of supply).

Attention:
Before leaving the safe deposit, it is imperative to make sure that the lock is correctly locked.

Further functions of EloStar time:

- **1 master code (6-digit)**
- **9 user codes**
- **Silent alarm with alarm time delay**
- **Automatic locking with door switch**
- **Automatic locking after 10 seconds**
- **4-eyes principle**
- **Opening delay with release time**
- **Blocking / releasing lock**
- **Event log with the last 512 events**
- **Date / time**
- **User-defined time programs**
- **Quick opening code**
- **Programming via PC**
- **Resetting the lock**

3. Programming the lock

In order for the lock to be programmed, it has to be opened. For this purpose, the lock can be opened with any user code.

In the delivery state, the lock can only be opened with the factory master code (0 = user no. + 1 2 3 4 5 6 = master code, ⓪ ①②③④⑤⑥).

The most important functions of the lock can be programmed with the keypad; extended functions are programmed with the PC software CombiComm and the event log is read out with the PC software.

Programming with the keypad

Program number	Function
⓪	Reprogram the master code
①	Program/reprogram/delete user codes
②	Activate the 4-eyes principle
③	Set the opening delay / release time
④	Set automatic locking after 10 sec.
⑤	Reset lock
⑥	Block / release lock
⑦	Start programming via PC
⑧	Set date and time
⑨	Set IO functions / set blocking element

3.1. Reprogramming the master code

Notes:

- Immediately change the factory-set code **1 2 3 4 5 6** for security reasons.
- The programming can only be done when the lock is open.
- Do not use any personal data for your new code such as birthdays or other information that could be guessed from knowledge about you.
- After you have entered the new code, open and close the electronic lock several times with the new code while the door is open.

`*` `0` `*`	Enter the program number
`1` `2` `3` `4` `5` `6` `*` 💡	Enter the old master code
`6` `5` `4` `3` `2` `1` `*`	Enter the new master code
`6` `5` `4` `3` `2` `1` `*` 💡 ♫	Enter the new master code

3.2. Reprogramming the master code with emergency opening lock

In conjunction with an emergency opening lock, the master code can be reprogrammed without knowledge of the current master code. The emergency opening lock must be open for this.

`*` `0` `*`	Enter the program number
`6` `5` `4` `3` `2` `1` `*`	Enter the new master code
`6` `5` `4` `3` `2` `1` `*` 💡 ♫	Enter the new master code

3.3. Programming user codes

Note:

- The programming can only be done when the lock is open.
- Do not use any personal data for your new code such as birthdays or other information that could be guessed from knowledge about you.
- After you have entered the new code, open and close the electronic lock several times with the new code while the door is open.
- The programming or deletion of user codes is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)

Programming or creating a new user code

`*` `1` `*`	Enter program number 1
`1` `*`	Enter the user number (e.g. user 1)
`1` `2` `3` `4` `5` `6` `*` ☼	Enter the **master code**
`1` `1` `1` `1` `1` `1` `*`	Enter the new user code
`1` `1` `1` `1` `1` `1` `*` ☼ ♫	Enter the new user code

Reprograming the user code

`*` `1` `*`	Enter program number 1
`1` `*`	Enter the user number (e.g. user 1)
`1` `1` `1` `1` `1` `1` `*` ☼	Enter the **master code or old user code**
`1` `3` `2` `1` `3` `2` `*`	Enter the new user code
`1` `3` `2` `1` `3` `2` `*` ☼ ♫	Enter the new user code

Deleting a user code

`*` `1` `*`	Enter program number 1
`1` `*`	Enter the user number (e.g. user 1)
`1` `2` `3` `4` `5` `6` `*` ☼	Enter the **master code**
`*` ☼ ♫	Delete

Note:
When the 4-eyes principle is activated, it is not possible to delete all users;
at least one user must be programmed.

3.4. 4-eyes principle

Notes:

- The 4-eyes principle can only be set with the master code.
- This setting can only be made when the lock is open. After this function has been programmed (activated), the lock can only be opened when two codes are entered.
- The programming or deletion of the 4-eyes principle is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)
- In addition to the master code, at least one user code must be programmed.

Activating the 4-eyes principle

☒②☒			Enter program number 2
①②③④⑤⑥	☒	♫	Enter the **master code**
①☒		💡♫	Activate the 4-eyes principle

Deleting the 4-eyes principle

☒②☒			Enter program number 2
①②③④⑤⑥	☒	♫	Enter the **master code**
⓪☒		💡♫	Delete the 4-eyes principle

Opening with the 4-eyes principle

①	⓪①⓪①⓪①	💡	Enter the user number of the first code (e.g. 1) and enter the first code (e.g. 010101)
		💡	Green LED is lit.
②	⓪②⓪②⓪②	💡♫	Enter the user number of the second code (e.g. 2) and enter the second code (e.g. 020202)
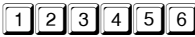
3.5. Setting the opening delay / release time

Notes:
- The opening delay can only be programmed by the master.
- The programming can only be done when the lock is open.
- The programming or deletion of the opening delay and release time is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)

Setting the opening delay and release time

⌧3⌧		Enter the program number
1 2 3 4 5 6 ⌧ 🔅		Enter the **master code**
0 1 ⌧		Set an opening delay, e.g. 01 min.
0 1 ⌧	🔅 ♫	Set a release time, e.g. 01 min.

The opening delay can be set in the range of 01 – 99 minutes.
The release time can be set in the range of 01 – 15 minutes. When 00 is entered, the lock immediately opens after the opening delay has expired, without an additional code entry or expiration of a release time.

Deleting the opening delay and release time

⌧3⌧		Enter the program number
1 2 3 4 5 6 ⌧ 🔅		Enter the **master code**
0 0 ⌧		Delete the opening delay
0 0 ⌧	🔅 ♫	Delete the release time

Opening with opening delay and release time

1 0 1 0 1 0 1 🔅		Enter the user number of the first code (e.g. 1) and enter the first code (e.g. 010101) (in the case of the 4-eyes principle, enter the second code as well).
	🔅	Expiration of the opening delay. The green LED flashes every 5 seconds. After the time delay has expired, this is signaled by the signal tone 15x. The green LED is lit. The lock waits for the opening code to be entered again during the release time.
1 0 1 0 1 0 1 🔅 ♫		Enter the user number of the code (e.g. 1) and enter the first code (e.g. 010101). Lock opens. (Only one code is required, even with the 4-eyes principle!)

3.6. Automatic locking

Notes:

- Automatic locking can only be set by the master.
- After this function has been activated, the lock automatically locks 10 seconds after it was opened.
- The programming can only be done when the lock is open.
- The programming or deletion of the opening delay and release time is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)

Activating automatic locking

⁕4⁕		Enter the program number
1 2 3 4 5 6 ⁕ ☼		Enter the **master code**
1⁕ ☼ ♫		Activate automatic locking

Deleting automatic locking

⁕4⁕		Enter the program number
1 2 3 4 5 6 ⁕ ☼		Enter the **master code**
0⁕ ☼ ♫		Delete automatic locking

3.7. Blocking / releasing the lock

Notes:

- The lock can only be blocked by the master.
- The programming is done when the lock is closed!
- After the blocking has been activated, the lock is blocked for user codes until the master removes the blocking.
- The programming is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)

Blocking the lock

⁎ 6 ⁎	Enter the program number
1 2 3 4 5 6 ⁎ ☀	Enter the **master code**
1 ⁎ ☀ ♪	Activate the blocking

Releasing the lock

⁎ 6 ⁎	Enter the program number
1 2 3 4 5 6 ⁎ ☀	Enter the **master code**
0 ⁎ ☀ ♪	Cancel blocking
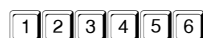
3.8. Setting date and time

Notes:

- The programming is only done by the master.
- Date and time are entered without points.
- A corresponding number must be entered for the day of the week.
- 1 = Monday / 2 = Tuesday / 3 = Wednesday / 4 = Thursday / 5 = Friday / 6 = Saturday / 7 = Sunday
- The correct setting of the time, date and day of the week is essential for the correct operation of the time programs, the automatic summer/winter time changeover and the event log.
- The setting can be made when the lock is open as well as closed.
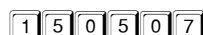
Keys			
`*` `8` `*`			Enter the program number
`1` `2` `3` `4` `5` `6`	`*`	☀	Enter the **master code**
`1` `5` `0` `5` `0` `7`	`*`		Enter the date, e.g. 15.05.09
`1` `5` `0` `0`	`*`		Enter the time, e.g. 15:00
`3` `*`		☀ ♫	Enter the day of the week, e.g. 3 = Wednesday
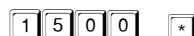
3.9. Programming with a PC

Programming with a PC is done using the **CombiComm parameterization set**. More detailed information can be found in the manual of the CombiComm PC software.
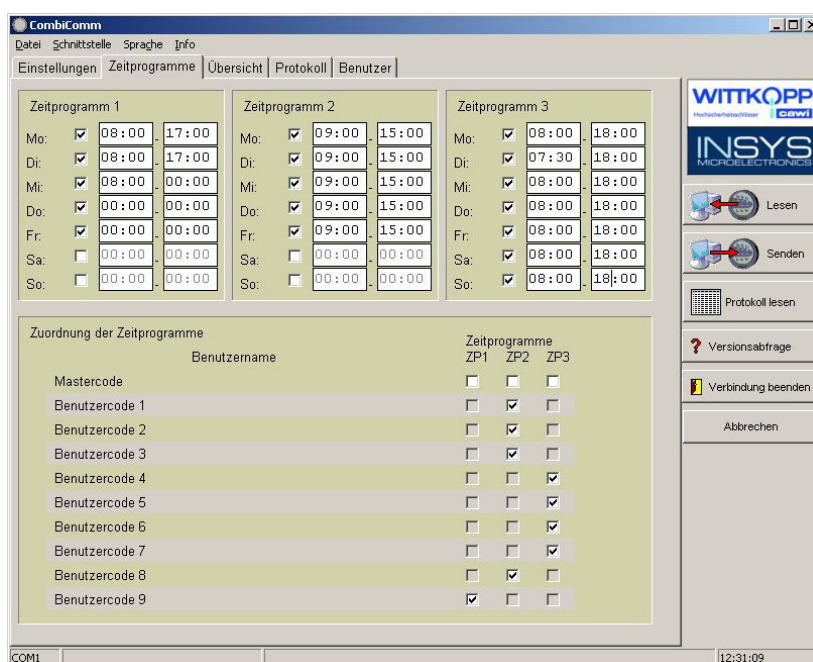
Programming with a PC can only be done when the electronic lock is open!

Note:
Before the connection is established, the CombiComm PC software must be started and the correct communication interface must be selected.

The following settings, among others, can be made with a PC:

- User-defined time programs
- 4-eyes principle
- IO functions
- Silent alarm incl. alarm delay
- Quick opening code
- Opening delay / release time
- Date / time
- Reading out the event log

Establishing a connection to the PC

Depending on the keypad design, the interface cable is correspondingly connected on the inside or the outside of the cabinet.

Keypad 7236   Connection outside, below keypad cover

Keypad 7233   Connection inside the safe deposit or the door

Keypad 7231   Connection inside the safe deposit or the door

Starting communication with the PC

⌜*⌟⌜7⌟⌜*⌟   Enter program number 7

⌜1⌟⌜2⌟⌜3⌟⌜4⌟⌜5⌟⌜6⌟ ⌜*⌟ 🔆   Enter the master code

3.10. Event log

The last 512 events are logged in chronological order with the date and time. The information is read out with the **CombiComm parameterization set**. More detailed information on this can be found in the manual of the PC software.

The following events are logged:

- Reset of the lock or battery change
- Code entries
- Lock open
- Lock closed
- Programming via serial interface
- Programming or deletion of the 4-eyes principle
- Reprogramming the master code
- Programming, reprogramming or deletion of user codes
- Programming or deletion of the opening delay and release time
- Programming of the automatic locking
- Lock blocking
- Resetting the lock

Note:
The correct setting of the date and time is the basis for correct event logging!

The log data is read out via PC, as the programming is done!
(See Programming via PC !)
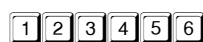
| *7* | Enter program number 7 |

| 123456 * 💡 | Enter the **master code** |

3.11. Reprogramming the quick opening code

- A programmed opening delay can be circumvented by the quick opening code.
- The quick opening code is assigned to user 9 at the factory.
- However, this code can be reprogrammed to any other user with the PC software CombiComm.

3.12. Activating external input and output signals

3.12.1. General functionality

The following functions can be implemented using external signals, inputs and outputs:

- Silent alarm
- Automatic locking with the door switch
- Status display of the deadbolt of the lock
- External blocking / release of the lock
- Display of the end of the opening delay

The electronic lock EloStar time has 2 inputs and 2 outputs for implementing the above-mentioned functions. A particular function can be assigned to each input signal and output signal according to the following description of the function numbers.

The extension unit **EloXT** and the adapter p.c.b. **EloAdapt** are available for professionally connecting the signals of the lock.
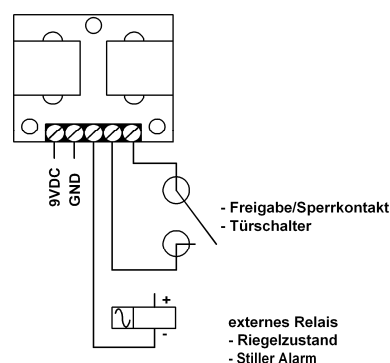
EloXT
2 relay outputs
2 switching inputs / 2 12V inputs
Power supply unit connection 12VDC
RS-232 connection
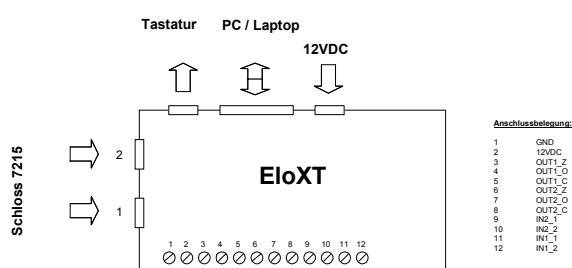
EloAdapt
1 open collector output
1 switching input
Voltage connection 9VDC

More detailed information can be found in the installation instructions for EloXT and EloAdapt.

Activation of IO functions

Notes:
- After activation, the following inputs/outputs are queried or actuated.
- Activation or deactivation can only be performed by the master.
- The activation or deactivation is saved in the event log.

⁕ 9 ⁕		Enter program number 9
1 2 3 4 5 6 ⁕ ☼		Enter the **master code**
1 1 ⁕ ☼ ♪		Enter the **function number** (e.g. 11)

```
        └──── 2nd digit => outputs
  └───────── 1st digit => inputs
```

Explanation of the function numbers:
Inputs:

1st digit ☞   ⓪   = No function
              ①   = Door switch (IN1)
              ②   = Door switch (IN1), release/blocking (IN2)
              ③   = Release/blocking (IN1)

Outputs:

2nd digit ☞   ⓪   = No function
              ①   = Deadbolt status (OUT1)
              ②   = Silent alarm (OUT1)
              ③   = Silent alarm (OUT1), deadbolt status (OUT2)
              ④   = Silent alarm (OUT1), end of opening delay (OUT2)
              ⑤   = Deadbolt state (OUT1), end of opening delay (OUT2)

Deleting I/O functions

⁕ 9 ⁕		Enter program number 9
1 2 3 4 5 6 ⁕ ☼		Enter the master code
0 0 ⁕ ☼ ♪		Delete = 00 *

3.12.2. Silent alarm and alarm time delay

Notes:

- The silent alarm function and the corresponding output signal are only active when the function has been activated.

- The silent alarm is triggered by entering the opening code, whereby the last digit has to be increased by one.
  Example: 0 123456   Normal opening code
  0 123457   Triggering of the silent alarm (9+1 -> 0)

- After a silent alarm has been triggered, a programmed alarm time delay becomes active. The release time of the alarm time delay is permanently set to 5 minutes.

- The alarm signal can either be signaled and connected via the *EloXT* expansion unit (relay output) or via the adapter p.c.b. **EloAdapt** (open collector output).

- The triggering of a silent alarm is also saved in the event log.

- The silent alarm and alarm time delay functions can also be programmed with the PC software CombiComm.

Activation of the "silent alarm"

`* 9 *`		Enter program number 9
`1 2 3 4 5 6` `*` 💡		Enter the **master code**
`0 2 *`		Enter the user **function number** (e.g. 02)
`0 1 *`	💡 ♪	Enter the opening delay in the case of an alarm in minutes, e.g. 01 minute.

3.12.3. Automatic locking with the door switch

Notes:

- With the function "Automatic locking via door switch", the electronic lock can be automatically locked by actuating a door or boltwork switch.

- If the door switch is not opened within 15 seconds after the code is entered and the lock is opened, the electronic lock locks again automatically.

- The "Automatic locking" function can also be programmed with the PC software CombiComm.

Activation of the function "Automatic locking via door switch"

⁂ 9 ⁂	Enter program number 9
1 2 3 4 5 6 ⁂ ☀	Enter the **master code**
1 0 ⁂ ☀ ♫	Enter the **function number** (e.g. 10) Connect the door switch to IN1

3.12.4. External release / blocking

Notes:

- The electronic lock can be blocked or released by an external signal, e.g. by a burglar alarm system, via this input contact. The lock can then no longer be operated by a user.

- The function can either be programmed to IN1 or IN2, see function numbers.

Activation of the function "External blocking / release"

⁂ 9 ⁂	Enter program number 9
1 2 3 4 5 6 ⁂ ☀	Enter the **master code**
3 0 ⁂ ☀ ♫	Enter the **function number** (e.g. 30) Connect the blocking signal to IN1

3.12.5. Signaling the status of the deadbolt of the lock

Notes:

- The electronic lock can signal the status of the deadbolt via this output contact.
- The function can either be programmed to OUT1 or OUT2, see function numbers.

Activation of the "Status indication" function:

⌨ * 9 *		Enter program number 9
⌨ 1 2 3 4 5 6 * ☼		Enter the **master code**
⌨ 0 1 * ☼ ♫		Enter the **function number** (e.g. 01)
		Connect IN1

3.13. Connection of the external LCDXT display

For optical display of a programmed opening delay (count down = "Zeitverzoegerung"), the mobile display LCDXT (optional accessory) can be connected.
More detailed information can be found in the manual of the display.

3.14. Resetting the lock

Notes:

- The lock can only be reset by the master.
- Programming is done when the lock is open!
- All user codes and the configuration are deleted. The master code is preserved.
- The programming is saved in the event log. (For reading out the event log, see the manual of the PC software CombiComm)

Resetting the lock
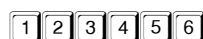
⋆ 5 ⋆	Enter the program number
1 2 3 4 5 6 ⋆ ☼	Enter the **master code**
0 ⋆ ☼ ♫	Reset the lock

4. Appendix

4.1. Optical and acoustic signal outputs

Signal output	Reason	Note
green 1 x	Correct code entry	
red and 12 x ♫	Incorrect code entry	After 3 consecutive incorrect code entries, a blocking time of 12 sec. occurs. Each subsequent incorrect entry extends the blocking time by 12 sec. Blocking time cannot be cancelled!
green and 2 x ♫	Change OK	Code changed or additional functions switched on/off correctly.
red and 12 x ♫	Change invalid	Code changed or additional functions switched on/off incorrectly. Repeat procedure.
green flashes every 5 sec.	Time delay is running	While the time delay is running, the electronic lock does not react to any key entry.
15 x ♫ then green	Release is running (time delay expired)	For release times, see **Opening with time delay.**
red flashes every 5 sec.	Blocking time is running.	Blocking time cannot be cancelled!
green and 2 x ♫	Blocking time expired.	Electronic lock can now be opened with the correct code.
alternately flashes red and green, 10 x and 10 x ♫	Battery warning	ALKALINE type batteries (not rechargeable) should be changed soon. ☞ Codes are preserved when batteries are changed. Enter **code 2x** after battery change.
green and 1 x ♫ , then red and 1 x ♫	Keypad has been manipulated or changed.	In order to open the electronic lock, the code has to be entered again.

4.2. Notes

We assume no liability for malfunctions caused by incorrect operation, the application of force or improper handling or for property damage and financial losses caused by improper locking of the safe.
If the electronic lock cannot be opened despite correct operation, please contact the manufacturer of the safe.

Safety notes

- Immediately change the factory-set code **1 2 3 4 5 6** for security reasons.
- Do not use any personal data for your new code such as birthdays or other information that could be guessed from knowledge about you.
- After you have entered the new code, open and close the electronic lock several times with the new code while the door is open.

4.3. Accessory list

Accessory	Order number	Price
CombiComm parameterization set		On request
EloXT expansion unit		On request
EloAdapt adapter p.c.b.		On request
Plug-in power supply unit 12VDC		On request
Plug-in power supply unit 9VDC		On request
USB serial converter		On request

Revision history

Version	Status	Change	Name
1.00	15.05.07	First edition	MB
1.01	28.05.07	Adaptations, additions	MB
1.02	11.06.07	Adaptations	MB
1.03	26.11.07	Name changed again to EloStar time Adaptation of IO functions	MB

!!! Errors excepted !!!

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