EloStar electronic lock

Typ: 7215 / 7216 / 7217/ 7215-3XX-X / 7216-3XX-X / 7217-3XX-X

Models available

7215 Electronic lock with rigid bolt.

7215-300-0 to **7215-399-0**
Electronic lock with spring-loaded bolt.

7216 Electronic lock with rigid bolt and mechanical emergency release, VdS Class1.

7216-300-0 bis **7216-399-0**
Electronic lock with spring-loaded bolt and mechanical emergency release, VdS Class1.

7217 Electronic lock with rigid bolt and mechanical emergency release, VdS Class2.

7217-300-0 bis **7217-399-0**
Electronic lock with spring-loaded bolt and mechanical emergency release, VdS Class2.

Contents:

1. Important notes

- Beforehand any operation use **C-Button**
- In the interest of security, change the factory combination **0 _ 1 2 3 4 5 6** immediately.
- Do not use any personal data for your new master or user combination.
- The maximum permissible interval between any two keypad entries is 60 seconds. If this limit is exceeded, then the entire procedure will have to be repeated from the beginning.
- A signal tone sounds each time a button is pressed.
- Store the keys used for mechanical emergency release (only for the EloStar 7216 / 7217 / 7216-3XX-X / 7217-3XX-X) in a secure place and never inside the safe itself!
- A 10-second time-out period will be started after in valid combinations have been entered in three consecutive attempts.
- Do not damage the inspection seal on the lock as otherwise the guarantee will be invalidated.

1.1 Explanation of terms

The following terms and symbols are used:

User number	=	User number (abbreviated **UNo.**) **UNo.** = **0** for master **UNr.** = **1** to **9** for users
Combination	=	A combination (series) of digits, e.g. 4 7 6 2 3 9
Opening combination	=	A series of digits required to open the lock. It comprises the: **User number and combination**. e.g. master combination 0 _ 6 5 4 7 2 1 e.g. user combination 3 _ 8 7 9 5 8 3
Factory combination	=	The initial combination, programmed at the factory. For this electronic lock the combination has been pre-set to **0 _ 1 2 3 4 5 6**.
Master combination	=	Combination used by the master to open the lock.
User combination	=	Combinations for additional users. All user combinations are subordinate to the master combination.
Override combination	=	Combination which will open the lock immediately even if a delay period has been programmed.
P No.	=	Program number
LED	=	Light-emitting diode at the keypad.
Note	=	
Caution	=	

2. Opening the electronic lock

The electronic lock is opened by entering the appropriate combination (pressing seven buttons); please refer to the examples:

Opening the lock using the factory combination or master combination	
Enter UNo.	Enter factory combination or master combination
0	e.g. 1 2 3 4 5 6

Opening the lock with a user combination	
Enter UNo.	Enter user combination
1 ∘	e.g. 3 4 6 5 8 9
Correct combination:	Green LED blinks once and a high low tone sounds.
Invalid combination:	12 high-pitched signal tones and the red LED lights
∘ ☞ Button 1 for user combination 1 Button 2 for user combination 2 etc. through user combination 9	☞ The electronic lock is delivered without any user combinations pre-programmed.

Please note: You may press the ”C“ key to correct the entry. In this case you will have to repeat the entire entry sequence. After a correct entry has been made the green LED blinks once; the motor moves the bolt into its ”open“ position. The green LED will blink once and a low-high signal sounds to confirm that the electronic lock is in its open position. The handle can now be used to open the door. If the system fails to function when opening the door for the safe, then press the handle firmly in the ”close“ direction (the locking bolt might be jammed) and enter the combination once again.

3. Closing the electronic lock

Close the door, turn the handle back to the stop and press any digit button.

Please note: The motor now moves the locking bolt into its ”closed“ position. The green LED blinks once and a low-high signal sounds to confirm that the lock is closed. The container is now closed and locked. In the interest of security, however, attempt to turn the handle to ensure that the container is properly closed.

If the electronic lock was not locked correctly, then the red LED will light and a signal tone will sound 12 times in sequence. The LED blinking in green and a signal tone every seven seconds indicates that the lock is ”open.“ Now repeat the procedure as described in Section 3. Once the safe has been locked, and in the interest of security, have the lock’s status shown optically as described in Section 8.

4. Time-out following erroneous entries

Twelve high-pitched signal tones will sound and the red LED will light if an invalid combination is entered. You now have two more chances to enter a valid combination. After the third consecutive invalid entry, however, the time-out period commences; the keypad will accept no entries during this 12-second period. This time-out period will be extended by 12 additional seconds following each subsequent invalid entry. The time-out period cannot be interrupted with the ”C“ button. The red LED blinks every five seconds during the time-out period. The end of the time-out period is indicated by the green LED blinking and a single low-high signal.

It is now necessary to enter a valid combination twice in order to open the electronic lock.

5. Correction with the ”C“ button

If you press the ”C“ button during the course of an entry sequence, then all digits previously entered will be canceled. Any programming mode which might have been commenced will also be terminated. You must initiate programming once again, from the beginning, by pressing the * button.

Exception: Neither the time-out period following erroneous entries nor the timed delay period can be interrupted with the ”C“ button.

6. Charge monitoring, replacing the battery

If the battery charge is insufficient, then a high-pitched warning tone will sound 10 times after the combination is entered while the red and green LEDs blink alternately 10 times. This is to remind you to install a new 9-volt alkaline battery within the next few days.

Warning: If you ignore the low-battery warning for too long you run the risk of having to use the emergency power supply feature to open the lock, and thus the safe (only for the model 7233 keypad).

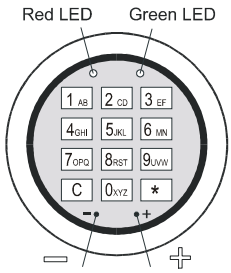
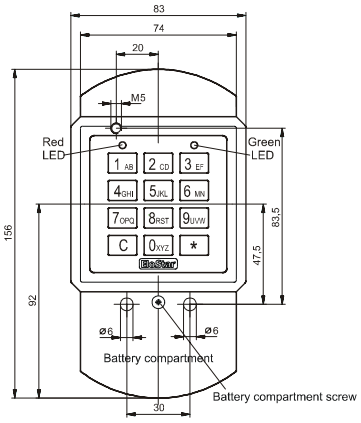


Figure 1

Emergency power contacts
(Only for round keypad, model 7233)

Keypad

Installation dimensions, 7231 keypad



7231 keyboard, vertical
Battery compartment at the bottom

This is done by connecting the new battery (**9-volt alkaline**) to the emergency contacts located at the keypad. **Important! Observe correct polarity when making the connection to the emergency contacts!** See Figure 1. Enter your combination to open the safe while emergency power is being applied.

The battery is replaced in the normal fashion with the safe door open.

The battery is easily replaced by unscrewing the battery compartment retaining screw and sliding out the battery compartment (only for the 7231 keyboard; the 7233 model has an external battery compartment) . Markings inside the

compartment show how the battery is to be installed (polarity).

Use only a 9-volt alkaline battery (not a rechargeable battery). The programmed combinations and times are retained in memory while the battery is being changed. Please dispose of used batteries properly; do not throw them in household trash.

6.1 Opening and closing after replacing the battery

If the battery is changed, then the combination will have to be entered twice in order to open the lock.

Press the "C" button to retrieve information on the current status of the lock. See Section 8. *Querying the lock status.*

If the battery is changed with the lock in its unlocked status, then it will be necessary to enter the combination twice to close it; then press any digit.

Refer to Section 9, *Detecting keypad replacement and tampering*, for optical and acoustic confirmation.

7. Mechanical emergency release, EloStar 7216 / 7217 and 7216-3XX-X / 7217-3XX-X only

An optional feature is the ability to open the safe mechanically in an emergency (using a double-bitted, high-security key), this being supplementary to the electronic lock. This makes it possible to open the safe if the battery was not changed out in time, if the electronics should fail, if the combination has been lost or if an overly long timed delay period was inadvertently programmed. Remember that if emergency opening capability is not provided, the safe will have to be forced open and damaged beyond use if the electronics should ever fail. The mechanical emergency release and the electronic lock both provide the same high security standards.

Store the emergency release key in a secure location and never inside the safe itself

Mechanical emergency release for the EloStar 7216 / 7217:

Insert the supplied double-bitted key in the lock and open the lock. Turn the handle to release the door.

If the model 7216 or 7217 electronic lock has been opened under motor power, then it **cannot** be closed with the emergency release key.

A model 7216 / 7217 electronic lock which has been opened with the emergency release key can **only** be closed with the electric motor.

If the master combination is lost, then it will be necessary to replace the electronic lock.

Mechanical emergency release for the EloStar 7216 3XX X / 7217 3XX X:

Insert the supplied double-bitted key in the lock and open the lock. Turn the handle to release the door.

If the model 7216-3XX-X or 7217-3XX-X electronic lock has been opened under motor power, then it **cannot** be closed with the emergency release key!

7.1 Closing after emergency release, 7216 / 7217

Rectify the problem.

Close the emergency release feature, enter the master or user combination and then press any digit key.

7.2 Closing after emergency release, 7216-3XX-X / 7217-3XX-X

Close the emergency release feature. The electronic lock will be closed together with this locking procedure.

8. Querying the lock status

Pressing the "C"-button when the electronic lock is in its stand-by status (*i.e.* not while entering a combination or programming) will cause the status of the electronic lock – "open" or "closed" – to be shown.

Button	Response	Lock status
C	Red LED blinks once	OPEN
C	Green LED blinks once	CLOSED

9. Detecting keypad replacement and tampering

If, after a combination is entered, the following signal is given:

One high-pitched tone and the green LED blinks once, then one low-pitched tone and the red LED blinks once

this indicates that either the keypad has been replaced out or an invalid combination was entered more than three times. The lock will not open following this signal; the combination will have to be entered again.

10. Programming the electronic lock

The electronic lock is shipped from the factory programmed with the factory combination 0 _ 1 - 2 - 3 - 4 - 5 - 6; no user combinations are programmed.

Before using your safe for the first time it is essential that, in the interest of security, you enter your own personal master combination; the factory combination may **not** be left unchanged. Programming should be undertaken only with the door open. Select your new 6-digit master combination before starting the programming sequence. Do not use as the combination any personal information such as a birthday or other data which could be derived from knowledge about your person. Store your master combination or user combination and the emergency release keys in a secure place so that only you have access to them. Never leave the emergency release keys inside the safe.

Programming options

P No. 0:	Change the master combination
P No. 1:	Programming, modifying or deleting the 9 user combinations **User combination 9 is the override combination.**
P No. 2:	Programming or deleting a combination inter lock (duality principle)
P No. 3:	Programming and deleting a timed delay period. Programming a release period.
P No. 4:	Programming and deleting automatic locking
P No. 5:	Programming a reset function
P No. 6:	Programming a time-lock period
P No. 7:	Deactivating or activating of power safe mode
P No. 9:	Programming I/O functions

10.1 Programming the master combination

Possible only with the electronic lock open and only by using the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		° Set at the factory for 1 - 2 - 3 - 4 - 5 - 6
Select P No. 0	0		
Confirm the entry	*		
Enter previous 6-digit combination, e.g. °	1 2 3 4 5 6		
Confirm the entry	*	Green LED blinks once	
Enter new 6-digit combination, e.g.	6 5 4 3 2 1		Please check to ensure that the lock functions correctly with the new master combination before closing the safe door.
Confirm the entry	*		
Enter new combination again to confirm	6 5 4 3 2 1		
Confirm the entry	*		
		OK = green LED lights and low-high tone sounds.	
Cancel	C	Error = 12 high-pitched tones and red LED lights.	Close the lock: Press any digit button

10.2 Programming a user combination

A user combination can be set up for the first time only by the master combination owner. Changes to a user combination may be made with either the master combination or the particular user combination. Programming is possible only with the electronic lock open.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 1	1		
Confirm the entry	*		A maximum of 9 user combinations can be programmed
Select user number, e.g. °	1		° 1 = UNo. 1
Confirm the entry	*		
Enter the 6-digit master or user combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	9 = UNo. 9
Enter the new 6-digit user combination, e.g.	4 5 6 7 8 9		User 9 =Override combination
Confirm the entry	*		
Enter the new user combination again to confirm	4 5 6 7 8 9		The previous user combination will be retained if there is an error in programming.
Confirm the entry	*		
		OK = green LED lights and low-high tone sounds.	
Cancel	C	Error = 12 high-pitched tones and red LED lights.	Close the lock: Press any digit button

10.2.1 Deleting a user combination

Only the master combination owner can delete a user combination and only with the electronic lock open.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		If fewer than 3 user combinations are programmed, then any combination interlock which may have been programmed previously will have to be deleted. See Section 10.3.2
	1		° 1 = UNo. 1
Confirm the entry	*		9 = UNo. 9
Select the user combination to be deleted, e.g.2 °	2		
Confirm the entry	*		
Enter the 6-digit master combination e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	The previous user combination will be retained if there is an error in programming.
Re-confirm the entry	*	OK = green LED lights and low-high tone sounds.	
Cancel	C	Error = 12 high-pitched tones and red LED lights.	Close the lock: Press any digit button

10.3 Activating a combination interlock (duality principle)

Possible only with the electronic lock open and only with the master combination.
At least two user combinations will have to have been programmed beforehand as otherwise an error signal will sound.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 2	2		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Codeverknüpfung aktivieren	1		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

When this feature is active either the master combination owner **alone** or two user combination holders **acting together** can open the safe.

10.3.1 Opening the safe with the combination interlock feature activated (duality principle)

When user combinations are employed to open the lock it is necessary to enter any two different user combinations, including the associated user number (see example below).

Once the first user combination has been entered a beep will sound every five seconds for a period of 60 seconds. If the second user combination is not entered within this 60-second period, then the entry will be discarded and both user combinations will have to be entered again.

Example:

Function	Operation, button(s)	Response	Comments
Enter first user number, e.g. 1	1 °	OK = green LED lights and low-high tone sounds. Error = 3 high-pitched tones and red LED lights	° Button 1 for UNo. 1 Button 2 for UNo. 2 etc. through to button 9 for UNo. 9 **User 9 = Override combination**
Enter first user combination, e.g.	4 5 6 7 8 9		
Enter second user number, e.g. 4	4 °		
Enter second user combination, e.g.	6 4 3 9 8 5		
Cancel	C		

The master combination holder continues to be authorized to open the lock alone.

10.3.2 Deactivating a combination interlock function (duality principle

Possible ith the electronic lock either open or closed and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 2	2		
Confirm the entry	*		
Enter 6-digit master combination e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Entry	0		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

10.4 Programming a timed delay period

Possible only with the electronic lock open and only with the master combination. It is possible to program a release period in combination to the time delay periode. The release periode is set to 1 Minute on factory suply. For reprogramming see 10.5

Function	Operation, button(s)	Response	Comments
Initiate programming	*		° 0 1 = 1 minute to 5 9 = 59 minutes
Select P No. 3	3		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter timed delay period °, e.g. 1 minute	0 1		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

Explanation: *Timed delay period* = Period from entering a combination the first time to clearance for entering a combination the second time to actually open the safe. *Release period* = Period of time available, once the timed delay period has expired, to open the safe by entering a combination

10.4.1 Opening the lock with the timed delay function activated

If a timed delay period has been programmed, it is applicable to all combinations. Once a valid combination has been entered, the green LED will blink at 5-second intervals during the timed delay period. During this period the electronics will not respond to any keypad entries. The end of this timed delay period is signaled by 15 signal tones; the green LED lights. The release period begins running and you can now open the electronic lock by **entering your combination again**.

If a combination interlock was programmed (see Sections 10.3 and 10.3.1) only one combination need be entered during the release period.

If an invalid combination is entered or the ”C“ button is pressed during the release period, then the entire opening procedure will have to be repeated. This means that once a valid combination has been entered, the timed delay period will begin running anew.

10.4.2 Deactivating a timed delay period

Possible only with the electronic lock open and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 3	3		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Entry	0 0		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

10.5 Programming a release period

Possible only with the electronic lock open and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		° 0 1 = 1 minute to 1 5 = 15 minutes
Select P No. 3	3		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		Release period set by factory to 0 1 = 1 Minute. If release time is set to 0 0 the electronic lock will open automaticly once the time delay period has expired.
Confirm the entry	*	Green LED blinks once	
Confirm the entry	*		
Enter release period °, e.g. 2 minute	0 2		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

10.6 Programming I/O functions (input/output functions)

Programming requires the external connection box „EloXT“. Functions may by programmed only if the external contacts are actually used as otherwise it might not be possible to open the clock!
Any undesired I/O programming will then have to be reversed to function number 0.
Programming is possible with the electronic lock closed or open and only with the master combination.

Before programming any I/O function the power safe must be deactivated.

Deactivating of power safe mode (The electronic lock will be delivered with power safe mode aktivated.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		° If no I/O function is prommed the power safe mode must be deactivated.
Select P No. 7	4		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Deactivating of power safe mode°	0		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

Activating of power safe mode

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 7	4		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Activating of power safe mode	1		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		Close the lock: Press any digit button.

Programming I/O functions

Programming is possible with the electronic lock closed or open and only with the master combination.

Fuction	Operation, button(s)	Response	Comments
Initate programming	*		° The lock is delivered programmed for In-function number 0 and Out-function number 0
Select P No 9	9		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
° Input function-No. (ref. to tabel of function) e.g.	3		
° Output function-No. (ref. to label of function) e.g.	4	OK = green LED lights and low-high tone sounds.	
Confirm the entry	*		
Cancel	C	Error = 3 high-pitched tones and red LED lights.	

TABLE OF FUNCTION NUMBERS

IN FUCTIONEN				OUT FUNCTIONEN			
Function No.	Button	In funtion IN_1	In function IN_2	Function No.	Button	Out function OUT_1	Out function OUT_2
0	0	No function	No function	0	0	No function	No function
1	1	Door switch	No function	1	1	bolt position	No function
2	2	Door switch	External relaese	2	2	Silent alarm	No function
3	3	External relaese	No function	3	3	Silent alarm	bolt position
				4	4	Silent alarm	End of time delay
				5	5	bolt position	End of time delay

Wireing diagram „EloXT“ ref. to page 12.

10.7 Programming automatic locking

Can be programmed only with the electronic lock open and only with the master combination. This programmed function automatically locks the electronic lock after 10 seconds.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 4	4		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter	1		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	**IMPORTANT!** The lock will close automatically after **10** seconds.
Cancel	C		

If the electronic lock is opened while programmed automatic closure is active, then the green LED will blink every 2 seconds during the 10-second open phase.

10.7.1 Deleting automatic locking

Can be programmed only with the electronic lock open and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 4	4		
Confirm the entry	*		
Enter 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter	0		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	**IMPORTANT!** After the function is deleted the lock will automatically close one more time after 10 seconds have elapsed.
Abbruch	C		

10.8 Programming an override combination

An override combination (permitting immediate opening even if a time-lock period has been specified) can be set up for the first time only by the master combination owner.
Changes may be made with either the master combination or a user combination.
Programming is possible only with the electronic lock open.
User 9 is defined as the override combination. If override is not desired, then user 9 may not be programmed!

Funktion	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 1	1		
Confirm the entry	*		° Only one override combination can be programmed.
Select user number 9 °	9		
Confirm the entry	*		
Enter the 6-digit master or user combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter the 6-digit override combination	4 5 6 7 8 9		
Confirm the entry	*		
Enter the override combination again to confirm	4 5 6 7 8 9		If there is an error in programming, then the previous override combination will remain valid.
Confirm the entry	*		
		OK = green LED lights and low-high tone sounds.	
Cancel	C	Error = 12 high-pitched tones and red LED lights.	Close the lock: Press any digit button.

10.8.1 Deleting an override combination

This may be done only with the electronic lock open and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 1	1		
Confirm the entry	*		
Select user number 9	9		
Confirm the entry	*		
Enter the 6-digit master combination, e.g.	6 5 4 3 2 1		If there is an error in programming, then the previous override combination will continue to be valid.
Confirm the entry	*	Green LED blinks once	
Confirm the entry	*	OK = green LED lights and low-high tone sounds.	
Cancel	C	Error = 12 high-pitched tones and red LED lights.	Close the lock: Press any digit button.

10.9 Programming a time-lock period

This may be done only with the electronic lock open and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		° 0 1 = 1 hour to 9 9 = 99 hours.
Select P No. 6	6		
Confirm the entry	*		
Enter the 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter the time-lock period °. e.g. 1 hour	0 1		
Confirm the entry	*	OK = green LED lights and low-high tone sounds.	
		Error = 12 high-pitched tones and red LED lights.	
Cancel	C		

Following the final entry confirmation the electronic lock will respond to no keyboard commands whatsoever during the specified time-lock period. After the programmed time-lock period has elapsed the electronic lock may be opened with the master combination or a user combination.

A programmed time-lock period will automatically be deleted once the period has run to an end.

11. Triggering a silent alarm

To trigger a silent alarm, increase by **1** the final digit of your master combination or user combination.

Example:

Master or user combination	Master or user combination for silent alarm
1 2 3 4 5 6	**1 2 3 4 5 7**
1 2 3 4 5 9	**1 2 3 4 5 0**

Entering the combination:

Enter UNo. and the master or user combination for silent alarm	
0 ° 1 2 3 4 5 7	° Button 0 for UNo. 0 (master combination) Button 1 for UNo. 1 (user combination) Button 2 for UNo. 2 (user combination) etc. through Butto 9 for UNo. 9 (user combination)

Once a silent alarm has been activated, the lock will open in the same way as if the master combination or a user combination had been entered. This also applies to any programmed delay period or a combination interlock.

12. Activity logging

The 128 most recent activities are logged and can be read out by connecting the electronic lock to a PC (RS232 interface).

The following activities will be logged:

1. Opening
2. Locking
3. Programming master and user combinations
4. Programming a combination interlock (duality principle)
5. Programming the timed delay period
6. Programming I/O functions
7. Keyboard manipulation and battery replacement
8. Alarm (silent alarm)

You will find explanations for the commands and the log in the program description for the "EloComm" PC software.

13. Transmitting data from the electronic lock to a PC

The associated terminal program can be obtained from:
CARL WITTKOPP GmbH & KG, Sternbergstr. 5, D-42551 Velbert, Germany; Phone: +49 / 2051 / 95660, Fax: +49 / 2051 / 956666 or INSYS, Waffnergasse 8, D 93047 Regensburg, Germany; Phone: +49 / 941 / 560061, Fax: +49 / 941 / 563471.

Descriptions of the functions and operating instructions are included with the PC software.

14. Reset function

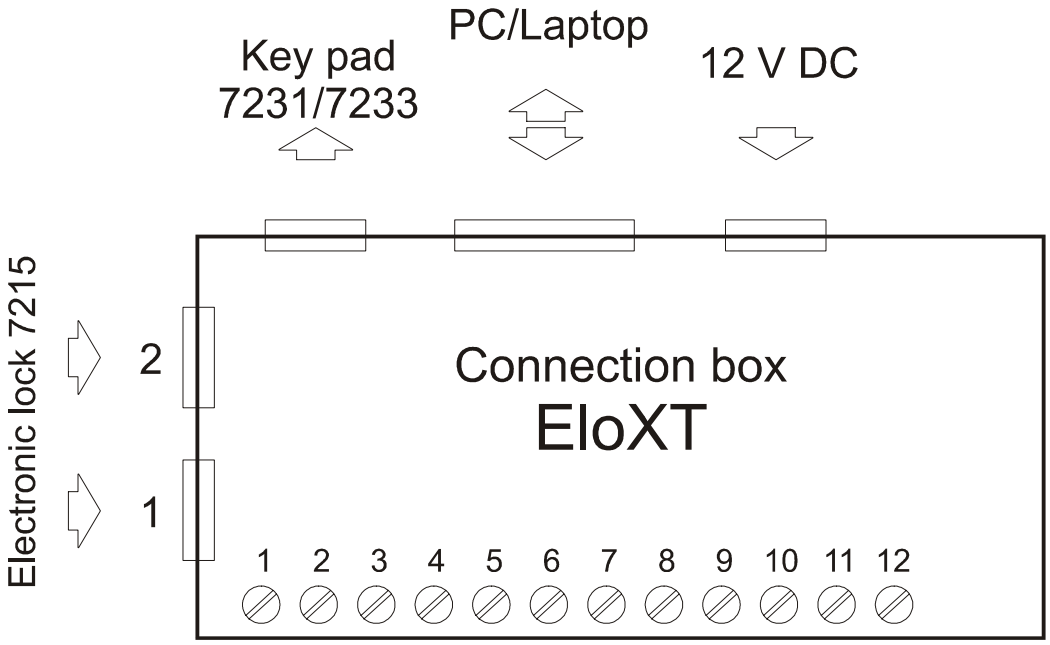
This programming option returns all the programmed functions to the factory default settings for the electronic lock.
Only the master combination and any programmed timed delay period will be retained.
This can be done only with the electronic lock closed and only with the master combination.

Function	Operation, button(s)	Response	Comments
Initiate programming	*		
Select P No. 5	5		
Confirm the entry	*		
Enter the 6-digit master combination, e.g.	6 5 4 3 2 1		
Confirm the entry	*	Green LED blinks once	
Enter	0		
Confirm the entry	*	OK = green LED lights and low-high tone sounds. Error = 12 high-pitched tones and red LED lights.	
Cancel	C		

15. Troubleshooting

Problem	Potential cause	Remedy
Red LED lights and a tone sounds 12 times in sequence. Then the green LED blinks and a signal tone sounds every 7 seconds.	Door for the safe is not properly closed.	Close the door properly and press any digit button. See Section 3: *Closing the electronic lock*.
Twelve high-pitched tones and the RED lights.	Incorrect entry of a master or user combination or error in a programming sequence.	Check the combination. Enter a valid combination. See Section 4: *Time-out following erroneous entries*. Or carry out programming correctly. See Section 10: *Programming the electronic lock*.
Lock does not respond to any entries at all.	Invalid master or user combinations have been entered three times in sequence. The time-out period following errors has been activated.	Enter a valid master or user combination once the lock-out period has elapsed. See Section 4: *Time-out period following erroneous entries*.
Keypad does not respond.	A timed delay period is running.	Wait until the timed delay period has elapsed. See Section 10.4: *Programming a timed delay period*.
Keypad does not respond.	The battery is dead.	Connect an emergency power battery. Applicable only for keyboard model 7233. See Section 6: *Charge monitoring; replacing the battery*.
Keypad does not respond.	A time-lock period has been programmed.	Wait until the programmed time-lock period has elapsed. The lock can then be opened with the master combination or a user combination. See Section 10.9: *Programming a time-lock period*.
Ten high-pitched warning tones, the red and green LEDs blink 10 times alternately.	Battery is weak. The low battery warning has been activated.	Install a new battery. See Section 6: *Charge monitoring; replacing the battery*.
One high-pitched tone and the green LED blinks once, followed by one low-pitched tone and the red LED blinking once.	Manipulation indicator: The keypad has been changed out or invalid combinations were entered three times or the battery has been replaced.	Enter the combination once again. See Section 9: *Detecting keypad replacement and tampering*.
Green LED blinks every five seconds; the electronics do not respond to any keypad entries.	A timed delay period has been programmed.	See Section 10.4.1: *Opening the lock with the timed delay function activated*
The lock cannot be opened once the timed delay period has elapsed.	Release period has also elapsed.	Observe the release time window, which will be from 30 seconds to 2 minutes, depending on the timed delay period which was programmed. See Section 10.4: *Programming a timed delay period (Explanation)*
Beep signal at five-second intervals for a period of 60 seconds	A combination interlock has been programmed. The second combination will have to be entered.	Enter the second combination within the 60-second period. See Section 10.3.1: *Opening the lock with the combination interlock feature activated*.
Programming of I/O-function not possible.	Power safe mode still activated.	Deactivate power safe mode. See Section 10.6: *Programming of I/O function.*

Wiring diagram for connection box “EloXT”



Pin connection:

1 = GND
2 = 12 V DC
3 = OUT1_Z
4 = OUT1_O
5 = OUT1_C
6 = OUT2_Z
7 = OUT2_O
8 = OUT2_C
9 = IN2_1
10 = IN2_2
11 = IN1_1
12 = IN1_2

We can assume guarantee liability neither for malfunctions caused by incorrect changes or application of undue force or improper treatment nor in the event of losses to property or assets due, for example, to a failure to close the safe properly. We recommend obtaining appropriate insurance coverage to protect the contents of your safe. Your property insurance sales agent can provide details.

If the safe cannot be opened even though you have followed the instructions given above, then kindly contact the safe manufacturer.