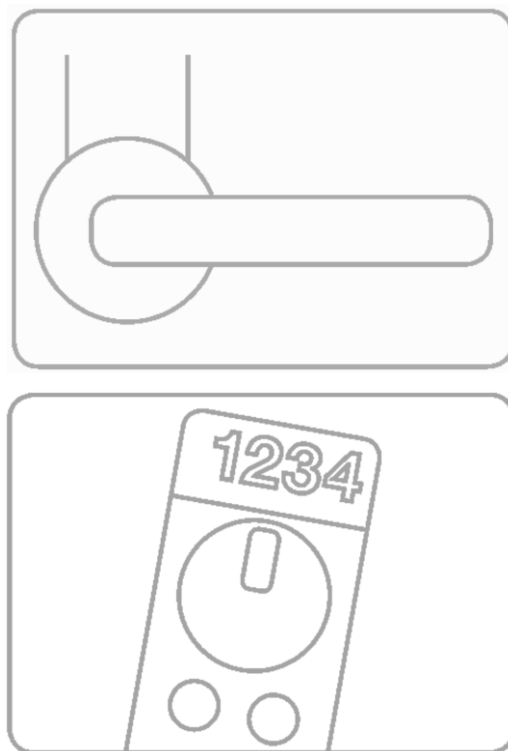


SAFE-O-TRONIC® access  
Electronic Identification and Locking System



# Manual Programming Set

English

### Notes on this manual

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Edition: 20111108  
Version: 1.0  
Document number: **Programmier-Set\_6-703-2 46R1.1.docx**

This manual replaces all previous versions.  
The details in this manual are subject to change without prior notification.

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### Safety and warning notes

- Please keep the manual in an easily accessible place.
- Unauthorised amendments and the use of spare parts and additional devices that were not purchased from or recommended by the manufacturer of the device lead to an exclusion of liability. The manufacturer will not assume any liability.
- Repair work must only be carried out by the manufacturer.
- The warranty provisions of the manufacturer as amended on the date of purchase shall apply to the equipment. Liability will not be assumed for unsuitable and automatic compilation of parameters for a device or unsuitable application of a device.
- The operating company shall bear the responsibility that the device is installed and connected according to recognised technical rules in the country of installation as well as other valid regulations.

**SAFE-O-TRONIC®** is a registered trademark of Schulte-Schlagbaum AG.

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### General

This manual describes the operation of the LS200, LS300, DS200, DS-T200, DS300, DS-T300 and CS300 locking systems with the corresponding programming sets.

The individual programming sets for SAFE-O-TRONIC® access consist of SystemKeys that are pre-configured in the factory and that are exclusively valid for one locking system.

SAFE-O-TRONIC® access locking systems can easily be put into operation with pre-defined functions using the programming sets and without further software. Time-related functions cannot be programmed using the programming sets.

However, you are able to upgrade to the full functional range of the individual locking components at any time by subsequently using further system components and Lock Manager 6 software.

Please see the system manuals for further information.

Overview of the SAFE-O-TRONIC® access locking systems

| Name                              | Picture                                                                             | Operation using |
|-----------------------------------|-------------------------------------------------------------------------------------|-----------------|
| Furniture locking system<br>LS200 |    | PIN code        |
| Furniture locking system<br>LS300 |    | RFID            |
| Door locking system<br>DS200      |   | PIN code        |
| Door locking system<br>DS300      |  | RFID            |
| Door locking system<br>DS-T200    |  |                 |
| Door locking system<br>DS-T300    |  |                 |
| Door locking system<br>CS300      |  | RFID            |

### Object number

Each programming set is labelled with an object number specific to the object.  
The individual SystemKeys in a programming set must be labelled with a standard object number and a standard KGEN (locking sequence).

**Front view**



**Designation**  
Example:  
LS200  
MasterKey1

**Rear view**



**Object number**  
Example:  
600001  
  
**KGEN**  
Example: 0

### Loss of the SystemKey (KGEN)

A completely new programming set with an increased KGEN must be used following the loss of a SystemKey from your programming set. All SystemKeys of the old programming set become invalid when the new programming set is used for the first time.

Conversion to an increased KGEN is carried out by using a ServiceKey (e.g. BatteryKey) on all SAFE-O-TRONIC® access locking systems in your equipment.

However, it is also possible to order individual SystemKeys in your programming set. You will have to quote the current KGEN of your programming set when ordering. You will find the corresponding item numbers in the following overviews.

#### **Information:**

Repeat orders for individual SystemKeys are only possible if you have already acquired the complete programming set.

# Terms

## UserCode

A UserCode is a 4-digit code that the user enters to lock and open the LS200, DS200 or DS-T200.

## UserKey

A Mifare<sup>®</sup> Mini, Classic 1k, 4k or DESFire RFID data carrier can be used as a UserKey. This RFID data carrier is not programmed during use with the programming set. Only the serial number (UID) of the RFID data carrier is required for the locking process.

After programming the locking components, the UserKey can be used as a “key” for locking and opening the SAFE-O-TRONIC<sup>®</sup> access locking systems.

## TestKey

In the condition as supplied, the function of the SAFE-O-TRONIC<sup>®</sup> access locking systems can only be examined using a TestKey. The TestKey is retained until programming of the SAFE-O-TRONIC<sup>®</sup> access locking systems. The TestKey does not have any locking functions whatsoever in the locking system after programming.

The TestKey for locking systems of your SAFE-O-TRONIC<sup>®</sup> access locking system can be ordered separately if required.

# Operating modes

## Free cabinet selection

“Free cabinet selection” operating mode is only available for the SAFE-O-TRONIC® access LS furniture locking system.

A LS200 in “free cabinet selection” operating mode can be used for locking by entering a freely selectable 4-digit UserCode.  
Subsequent opening is only possible using this UserCode.



A LS300 in “free cabinet selection” operating mode can be used for locking with any UserKey.  
Subsequent opening is only possible with this UserKey.



## Fixed allocation

For fixed allocation the SAFE-O-TRONIC® access must be programmed with the User Codes or UserKeys that are entitled to lock.



You can choose between two possibilities for opening:

### All Open

Every UserCode or UserKey that has been programmed in SAFE-O-TRONIC® access is able to open a locked locking system again.

### One Open

Only the UserCode or UserKey that locked SAFE-O-TRONIC® access is also able to re-open it.

### Operation

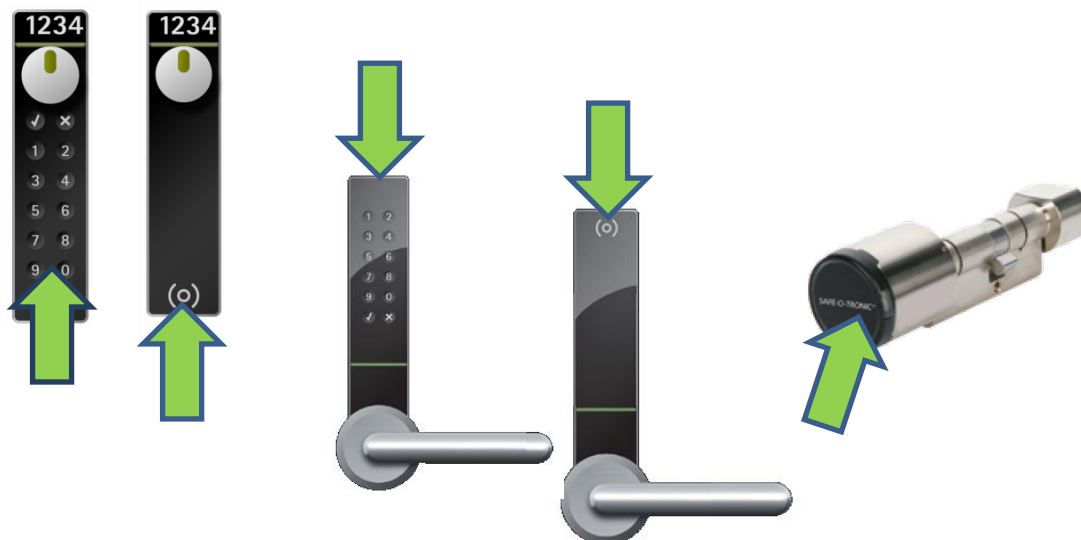
#### Information on LS200, DS200 and DS-T200

If you want to programme a LS200, DS200 or DS-T200 using the SystemKeys, you must first of all press the OK and escape key at the same time. The RFID reader of the locking systems is only activated after these two keys have been pressed.

⊙ and ⊗ (at the same time)



For programming, the SystemKeys must be held directly in front of the RFID reader of the locking systems.



## Programming Set LS200

# 38490060SK200

| Designation                   | Colour                                                                              | Item number         | Function                                                                                                                              |
|-------------------------------|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| LS 200<br>FreeCode<br>INIT    |    | 38490060SK200-FRCI  | Programming “free cabinet selection” operating mode for serial number operation.<br>The UserCodes can be entered without programming. |
| LS 200<br>FixCode<br>INIT_ALL |    | 38490060SK200-FICI  | Programming “fixed cabinet allocation – all open” operating mode.                                                                     |
| LS 200<br>FixCode<br>INIT_ONE |    | 38490060SK200-FICIO | Programming “fixed cabinet allocation – one open” operating mode.                                                                     |
| LS 200<br>FixCode<br>PROG     |  | 38490060SK200-FICP  | This key must be used in “fixed cabinet selection” operating mode to programme the individual UserCodes.                              |
| LS 200<br>ResetKey            |  | 38490060SK200-RK    | Reset to condition as supplied.                                                                                                       |
| LS 200<br>BatteryKey          |  | 38490060SK200-BATT  | Read-out of battery status:<br>Green = OK<br>Green + red = battery must be replaced.                                                  |
| LS 200<br>MasterKeyI          |  | 38490060SK200-MK1   | Open only:<br>The LS200 is disabled after opening.                                                                                    |
| LS 200<br>MasterKeyII         |  | 38490060SK200-MK2   | Open and lock;<br>Enabling if MasterKey I used to disable                                                                             |

## Programming set LS300

# 38490060SK300

| Designation                   | Colour                                                                              | Item number         | Function                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LS 300<br>FreeCode<br>INIT    |    | 38490060SK300-FRCI  | Programming "free cabinet selection" operating mode for serial number operation. All UserKeys are valid without programming.               |
| LS 300<br>FixCode<br>INIT_ALL |    | 38490060SK300-FICI  | Programming "fixed cabinet allocation – all open" operating mode.                                                                          |
| LS 300<br>FixCode<br>INIT_ONE |    | 38490060SK300-FICIO | Programming "fixed cabinet allocation – one open" operating mode.                                                                          |
| LS 300<br>FixCode<br>PROG     |  | 38490060SK300-FICP  | In "fixed cabinet selection" operating mode the individual UserKeys must be programmed with this key. Up to 99 UserKeys can be programmed. |
| LS 300<br>ResetKey            |  | 38490060SK300-RK    | Reset to condition as supplied.                                                                                                            |
| LS 300<br>BatteryKey          |  | 38490060SK300-BATT  | Read-out of battery status:<br>Green = OK<br>Green + red = battery must be replaced.                                                       |
| LS 300<br>MasterKeyI          |  | 38490060SK300-MK1   | Open only<br>The LS300 is disabled after opening.                                                                                          |
| LS 300<br>MasterKeyII         |  | 38490060SK300-MK2   | Open and lock;<br>Enabling if MasterKey I used to disable.                                                                                 |

## Programming set DS200

# 38490060DS200

| Designation                   | Colour                                                                              | Item number        | Function                                                                                        |
|-------------------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|
| DS 200<br>FixCode<br>INIT_ALL |    | 38490060DS200-FICI | Programming "fixed allocation – all open" operating mode.                                       |
| DS 200<br>FixCode<br>PROG     |    | 38490060DS200-FICP | In "fixed allocation" operating mode the individual UserCodes must be programmed with this key. |
| DS 200<br>ResetKey            |   | 38490060DS200-RK   | Reset to condition as supplied.                                                                 |
| DS 200<br>BatteryKey          |  | 38490060DS200-BATT | Read-out of battery status:<br>Green = OK<br>Green + red = battery must be replaced.            |
| DS 200<br>MasterKeyII         |  | 38490060DS-200-MK2 | Open and lock                                                                                   |

## Programming set DS300

# 38490060DS300

| Designation                   | Colour                                                                              | Item number        | Function                                                                                                                            |
|-------------------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| DS 300<br>FixCode<br>INIT_ALL |    | 38490060DS300-FICI | Programming "fixed allocation – all open" operating mode.                                                                           |
| DS 300<br>FixCode<br>PROG     |    | 38490060DS300-FICP | In "fixed allocation" operating mode the individual UserKeys must be programmed with this key. Up to 99 UserKeys can be programmed. |
| DS 300<br>ResetKey            |   | 38490060DS300-RK   | Reset to condition as supplied.                                                                                                     |
| DS 300<br>BatteryKey          |  | 38490060DS300-BATT | Read-out of battery status:<br>Green = OK<br>Green + red = battery must be replaced.                                                |
| DS 300<br>MasterKeyII         |  | 38490060DS300-MK2  | Open and lock                                                                                                                       |

## Programming set CS300

# 38490060CS300

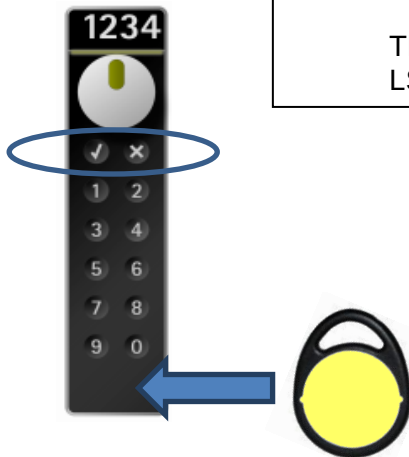
| Designation                     | Colour                                                                              | Item number        | Function                                                                                                                            |
|---------------------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| CS 300<br>FixCode<br>INIT_ALL   |    | 38490060CS300-FICI | Programming "fixed allocation – all open" operating mode.                                                                           |
| CS 300<br>FixCode<br>PROG       |    | 38490060CS300-FICP | In "fixed allocation" operating mode the individual UserKeys must be programmed with this key. Up to 99 UserKeys can be programmed. |
| CS 300<br>ResetKey              |   | 38490060CS300-RK   | Reset to condition as supplied.                                                                                                     |
| CS 300<br>BatteryKey            |  | 38490060CS300-BATT | Read-out of battery status:<br>Green = OK<br>Green + red = battery must be replaced.                                                |
| CS 300<br>Service-Battery       |  | 38490060CS300-SBAT | Service function:<br>Replace the batteries                                                                                          |
| CS 300<br>Service-<br>Demontage |  | 38490060CS300-SDEM | Service function:<br>Dismantling the electronic knob module                                                                         |
| CS 300<br>MasterKeyII           |  | 38490060CS300-MK2  | Open and lock                                                                                                                       |

## Programming examples

### LS 200 FreeCode INIT

1. Briefly press the OK and escape keys at the same time
2. LED flashes green
3. Hold the "LS200-FreeCode INIT" SystemKey in front of the RFID reader

The LS200 is now ready for operation. The users can now lock the LS200 with any 4-digit UserCode and open it again.



### CS 300 FixCode INIT\_ALL

1. Hold the "CS300-FixCode INIT" SystemKey in front of the RFID reader
2. Hold the "CS300-FixCode PROG" SystemKey in front of the RFID reader
3. LED flashes green
4. You can subsequently authorise your UserKeys

The DS300 is now ready for operation. The users can now confirm the CS300 with one of the authorised UserKeys.

