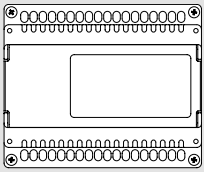
SSS SIEDLE

Programming Instructions
Entrance controller



EC 602-03

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Application
Entrance controller in switch panel housing for code lock module, electronic key reading module or fingerprint module. Display-supported programming via integrated buttons, or by means of PC software via additional programming interface PRI 602-… Electronic evaluating circuit with 2 switching outputs, extendable to 8 with ECE 602-…, 2 control inputs for time-controlled access rights. *
Key cards can only be programmed if ELM… are connected.

* FPM 611-02 programming only possible at the PC, accessories required.

Password
You can protect the EC 602-… against unauthorised access by using a password. A password is not set in the factory.

Device overview
The following devices can be operated on the EC 602-…:

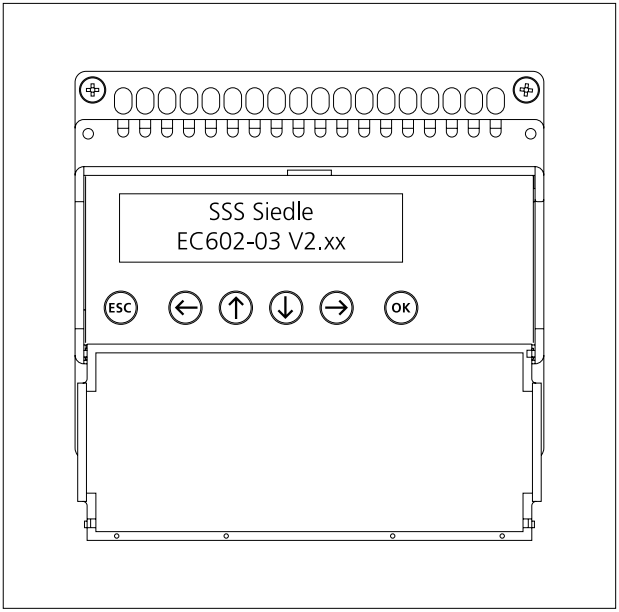
Accessories	Type	Quantity
ECE 602-…	Extension for the EC 602-…	max. 1
Input/read units	**Type**	**Quantity**
COM 611-…	Code lock	max. 8
ELM 600-… / ELM 611-…	Electronic key reader (non-contact card reader)	max. 8
FPM 611-…	Fingerprint reader	max. 8
DRM 612-…	Display call module	max. 8

Remarks
• As the DRM 612-… display call module was designed for digital calls, an externally connected button for the key button function is required in order to use it on the EC/ECE 602-…

Address setting
For all input/read units connected to the EC/ECE 602-…, a Vario bus address between 1 and 8 must be set. This setting is made using a rotary switch which is located under the rear cover next to the ribbon cable connection. The Vario bus address "1" is factory set on all input/read units.
Different input/read units which are combined on a door station (e.g. COM… and ELM…) each receive the same address. If the same input/read units are used, a different Vario bus address must always be set.

The Vario bus address setting "0" and "9" and duplicate assignment of Vario bus addresses for the same device types (e.g. 2 x COM 611-…) leads to malfunctions within the Vario bus and must not be carried out.

The display and the buttons are located under the housing cover. The housing cover can be opened by pulling the upper edge.



Button functions

↑ ↓	Up and down arrow key *	• Navigation in the menu structure • Select input (e.g. 5)
← →	Left and right arrow key *	• Select position in input field
OK	OK button	• Switch to a menu/submenu • Start programming • Save input • Confirm process
ESC	ESC button	• Return to higher-level menu • Cancel process

* If pressed and held, all arrow keys repeat their functions until released (repeat function). The possible button functions for an operating step are shown on the display, apart from the left and right arrow key.

Ready for operation
The EC 602-… is ready for operation when the start screen is displayed (approx. 7 seconds after switching the power on):

SSS Siedle
EC 602-03 V2.xx

System behaviour
If no entries are made in a programming menu for more than 10 minutes, then the EC 602-… automatically switches back to the start screen. Any entries that were not saved will be lost.

Display behaviour
The menu and submenu level is endless and repeats if the up or down arrow key is pressed repeatedly. During programming, submenu titles are not displayed when moving between two submenus.

Example	Function	Explanations
SSS Siedle EC 602-03 V2.xx	Start screen	Start screen which shows that the EC 602-… is ready to operate. Press the OK button to switch to the menu structure.
SYSTEM ↑↓ = Next OK = Prog	Navigation in the menu structure	You can use the up and down arrow key to navigate in the menu structure, e.g. to the CODE menu.
CODE ↑↓ = Next OK = Prog	Switch to the submenu	Press the OK button to switch to the relevant submenu, e.g. to access the Code programming submenu from the CODE menu.
Code programming ↑↓ = Next OK = Prog	Execute function	Press the OK button to start the configuration process in the Code programming submenu.
↑↓ = New OK = Store Code 01 _	Select characters/digits in the input field	Each position in an input field is indicated by a _. Numbers (e.g. 0–9), letters (e.g. A, B, C, D, L, G) or a pre-selection (e.g. NO, YES, internal, external) can be entered, depending on the configuration in the relevant menu. You can use the up and down arrow key to select, for example, the input value of individual input field positions in the Code programming menu (e.g. the first digit of code 01 is 5). You can use the left and right arrow key (not shown on the display) to move to different positions in the input field.
↑↓ = New OK = Store Code 01 5		
↑↓ = New OK = Store Code 01 5027		
↑↓ = New OK = Store Code 01 5027	Save the configuration and go to the next configuration point.	Use the OK button to save the input and go to the next submenu point, e.g. Relay selecting.
Show Code ESC = Back OK = Prog	ESC button: Cancel the current function or switch to the higher-level menu.	You can use the ESC button to abandon the current configuration or cancel the current process. Press the button again to go back to the higher-level menu.

Switching inputs and outputs

Switching inputs
There are 2 switching inputs E1 and E2 on the EC 602-… for enabling/disabling switching functions via potential-free contacts (e.g. via a timer):
• Switching input E1 (disables all access options globally):
If the contact is opened, then all access options (code, key card, fingerprint, key button) for which the disable function was configured are disabled.
• Switching input E2 (key button enable): Connected key buttons only work when the contact is closed (COM 611-… or externally via button).

Priority control
If both control inputs are wired, E1 has priority.

External voltage must not be applied to the control inputs E1 and E2.

Switching outputs
On the EC 602-…, there are 2 potential-free switching outputs (relay changeover contact) relay 1 and relay 2. The EC 602-… can be extended with 6 relay changeover contacts through a ECE 602-…

Relay function
In the EC 602-… and ECE 602-…, each relay is assigned a unique relay number and Vario bus address:

Model	Relay number	Vario bus address
EC 602-…	1	1
	2	2
ECE 602-…	3	3
	4	4
	5	5
	6	6
	7	7
	8	8

In the SYSTEM menu, the relay function L (local) and G (global) can be configured for each relay.
To use a local relay function, the Vario bus address of the assigned relay must be set on the input/read device. Otherwise, only the global relay function can be used.

• LOCAL: If a relay is operated locally (e.g. relay 2), then it can only be triggered with the assigned code, key card, fingerprint or key button of the input/read units with the Vario bus address 2 (e.g. an access door can only be opened by one input/read device). If the same input is made by another input/read device, this relay will not be triggered.

Example
Relay 2 is configured locally and assigned to code 01. 2 COM 611-… are operated (Vario bus address 1 and 2).
System behaviour: Relay 2 only switches if code 01 is entered via the COM with Vario bus address "2".

• GLOBAL: If a relay is operated globally, then it can be triggered with the assigned code, key card, fingerprint or key button of each input/read unit, regardless of its Vario bus address (e.g. it needs to be possible to open an access door from both sides using one input device each with the same code).

Example
Relay 1 is configured globally and relay 2 is configured locally. Relay 1 is assigned to code 01, relay 2 is assigned to code 02 and relay 1 and 2 is assigned to code 03. 2 COM 611-… are operated (Vario bus address 1 and 2).
System behaviour: If code 01 or 03 is entered via one of the two COM…, then relay 1 is triggered. Relay 2 is only triggered when code 02 or 03 is entered via the COM… with Vario bus address "2".

Operation without extension
If the EC 602-… is operated without an ECE 602-…, then, in the case of a local relay configuration, a maximum of two identical input/read units (COM/ELM/FPM/DRM) can be operated. If at least one of the relays is configured globally, then up to eight identical input/read units (COM/ELM/FPM/DRM) can be operated.

Time
Relays can be configured with a switching time of 0–59 minutes and 59 seconds and gateways with a pause time of 0–59 minutes and 59 seconds between two relay switch-on phases.

On/off function (toggle):
An on/off function can be configured using the EC/ECE 602-… To do so, the relay must be programmed globally in the Relay Function menu and in the Time menu the release time must be configured to 0 minutes and 0 seconds. If the relay is triggered via assigned code, card, fingerprint or key button via the input/read units, then the relay switches its switching state and remains in this state until the next input.

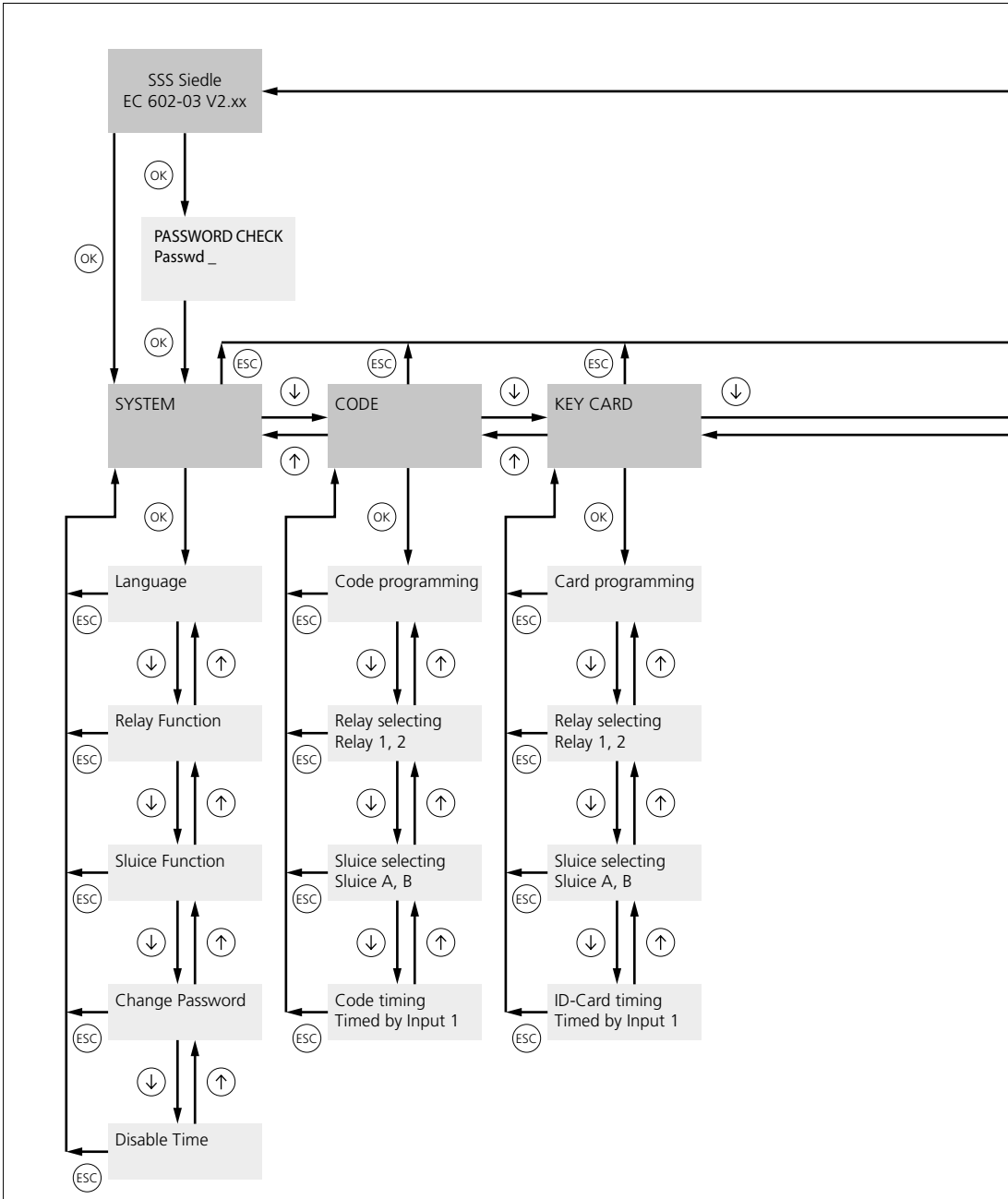
Gateway function
The gateway function enables a time-controlled switching sequence for two relays in any order.
A gateway function must be programmed for each throughput direction through a gateway.
In the case of gateways for which there is an incoming throughput direction as well as an outgoing throughput direction, two gateway functions must be programmed (e.g. incoming: gateway A with switching sequence: relay 1, 2 and outgoing: gateway B with switching sequence: relay 2, 1).

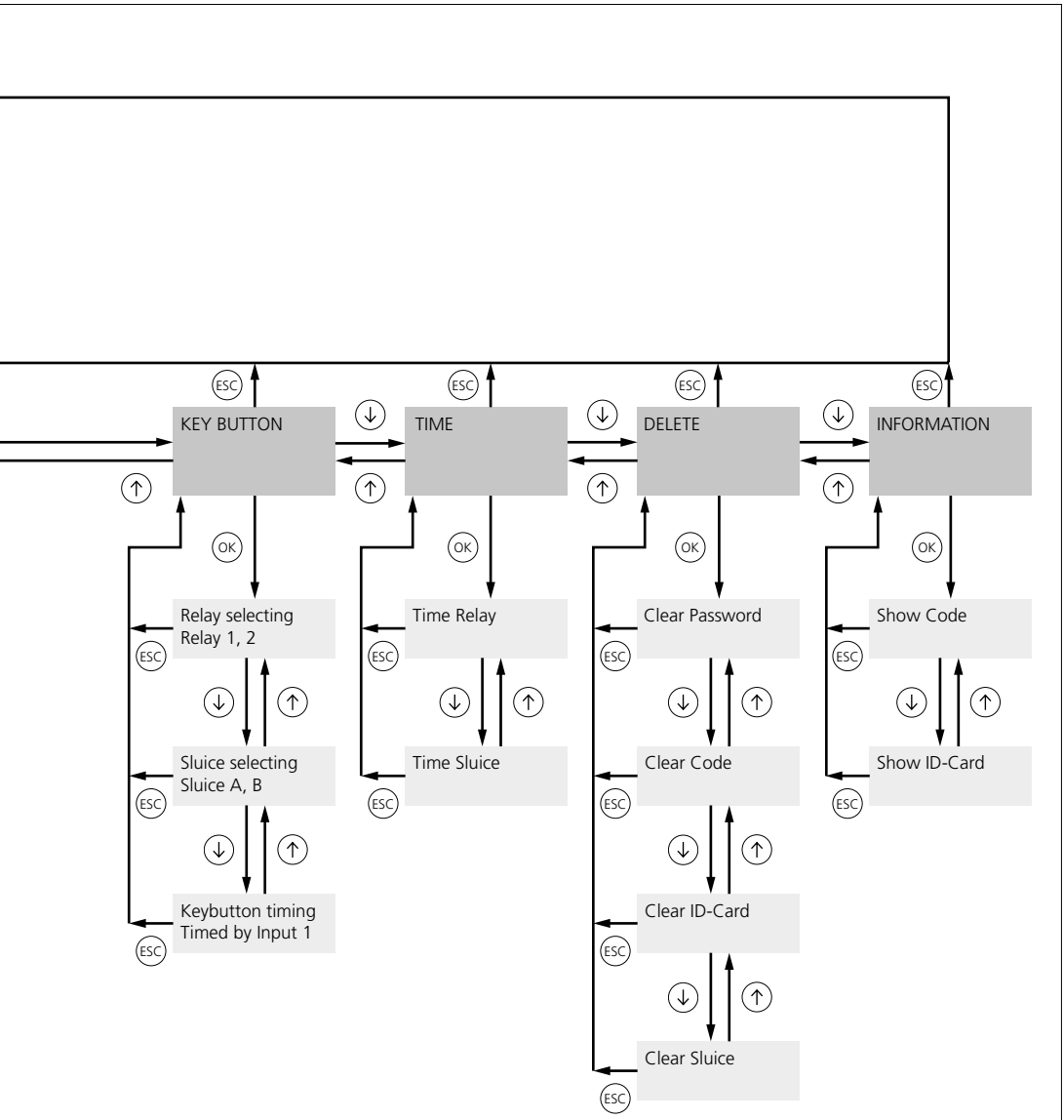
2 relays are needed for each gateway function. The relay assigned to the 1st position (Out1) in the switching sequence (e.g relay 1) always switches first. After a specific pause time, the relay assigned to the 2nd position (Out2) switches (e.g. relay 2).

The relay configuration (local/global) affects the input/read units authorised to trigger the gateway:

Relay [x] 1st position	**Relay [y] 2nd position**	**Gateway triggering**
Local	Local or global	Through all input/read units with the same Vario bus address as the 1st position relay
Global	Local	Through all input/read units with the same Vario bus address as the 2nd position relay
Global	Global	Through all input/read units via which the correctly assigned code, key card or fingerprint is entered

Menu structure / Programming options




KEY BUTTON
TIME
DELETE
INFORMATION
ESC
OK
Relay selecting
Relay 1, 2
Sluice selecting
Sluice A, B
Keybutton timing
Timed by Input 1
Time Relay
Time Sluice
Clear Password
Clear Code
Clear ID-Card
Clear Sluice
Show Code
Show ID-Card

Menu structure / Programming options

Menu level 1	**Menu level 2** Description	**Display indicator** German	English
SYSTEM (For configuring the language for the user interface, relay function, gateway function, password request and disable times for restricting access.)	Language	Sprache	Language
	Relay function	Relais Funktion	Relay Function
	Gateway function	Schleuse Funkt.	Sluice Function
	Changing the password	Kennwort ändern	Change Password
	Disable time	Sperrzeit	Disable Time
CODE (For programming codes for access authorisation via the COM 611-… with assignment of relays or gateways and time control)	Entering a code	Code eingeben	Code programming
	Selecting a relay	Relais wählen	Relay selecting
	Selecting a gateway ***	Schleuse wählen	Sluice selecting
	Time control	Zeitsteuerung	Code timing
KEY CARD * (For programming key cards for access authorisation via the ELM… with assignment of relays or gateways with or without time control.)	Card input	Karte eingeben	Card programming
	Selecting a relay	Relais wählen	Relay selecting
	Selecting a gateway ***	Schleuse wählen	Sluice selecting
	Time control	Zeitsteuerung	ID-Card timing
KEY BUTTON	Selecting a relay	Relais wählen	Relay selecting
	Selecting a gateway ***	Schleuse wählen	Sluice selecting
	Time control	Zeitsteuerung	Keybutton timing
TIME	Relay (Switching time)	Relais	Time Relay
	Gateway (Pause time)	Schleuse	Time Sluice
**DELETE **	Delete password	Kennwort löschen	Clear Password
	Delete code	Code löschen	Clear Code
	Delete card	Karte löschen	Clear ID-Card
	Delete gateway	Schleuse löschen	Clear Sluice
INFORMATION	Display code	Code anzeigen	Show Code
	Display card	Karte anzeigen	Show ID-Card

***** Only displayed if the ELM… is also used

****** Only displayed if the function is already configured (e.g. password)

******* Only displayed if configured in the System menu [SYSTEM] (e.g. gateway function)

Programming options [Display indicator]	**Factory setting**
German [Deutsch], English [English]	German
L (Local), G (Global)	L
4 gateways (A, B, C****, D****)	–
1–8-digit password	–
1-59 minutes	–
Max. 99 1–8-digit codes	–
Assign codes (COM 611-…)	–
A, B, C****, D****	–
No [No], Yes [Yes]	No
Max. 999 key cards (EKC/EK…)	–
Assign key cards (ELM…)	–
A, B, C****, D****	–
No [No], Yes [Yes]	No
Assign internal (release button on COM 611-…) / external (separate button connected to COM/DRM…) release button of COM/DRM…	–
A, B, C****, D****	–
No [No], Yes [Yes]	No
1 sec – 59 min 59 sec	3 sec
1 sec – 59 min 59 sec	–
Yes [OK], No [ESC]	–
Yes [OK], No [ESC]	–
Yes [OK], No [ESC]	–
Yes [OK], No [ESC]	–
Yes [OK], Cancel [ESC]	–
Yes [OK], Cancel [ESC]	–

******** Only displayed if the ECE 602-… is also used

Configuration details

Key cards
Instead of using codes or fingerprints, key cards (electronic key cards or electronic keys) can also be used for access.
Always read in key cards (EKC/EK…) for programming via the ELM… read unit with the lowest Vario bus address. In programming mode, both LED indicators light up on this read unit.

ELM… LED display	Description
Programming	
Red and green LEDs light up together.	Programming mode active while a key card is read in.
Green LED flashes for 1 second while the red LED is lit.	Key card has been read in successfully.
Red LED flashes while the green LED is lit.	The maximum number of readable key cards has been reached.
Operation	
The red and green LEDs flash alternately for 10 seconds.	ELM… switch-on phase
Steady green LED light.	The read unit is in operating mode.
The green LED flashes for 3 seconds.	The programmed function has been carried out.
The red LED flashes for 3 seconds	Unauthorised key card is being used.

Key buttons
There is a key button (internal) on the keypad on the COM 611-… input unit. Separate buttons can be connected to the COM 611… and DRM 611…/612… input/read units which can be used as key buttons (external).
Relays and/or gateways can be optionally assigned to key cards.

Codes
Up to 99 codes (each max. 8-digit) can be programmed.
It is not possible to assign codes twice.
Relays and/or gateways can be optionally assigned to codes.

Disable time
To prevent unauthorised access to the access areas, an input lock can be programmed for 1–59 minutes in the EC 602-… for all input/read devices.

The input lock is activated after the 10th unsuccessful access attempt with an incorrect code, unauthorised key card or unauthorised fingerprint.

In this case, it is assumed that an unauthorised access attempt is being made. All further input attempts are ignored for the programmed disable time.

Access code programming example

Entering a code

This programming example covers the following related programming sequences:

- Entering a code
- Selecting a relay
- Selecting a gateway
- Time control

Programming example

Program a code (code 01) with the digits 2345, assign a relay switching function (relay 2) or a gateway function (gateway B) to this code and activate the time control for this code.

Procedure	Function button	Display indicator
Entering a code	–	CODE ↑↓ = Next OK = Prog
Press the OK button.		Code programming ↑↓ = Next OK = Prog
Press the OK button.		↑↓ = New OK = Store Code 01_
Press the up arrow key repeatedly until "2" appears.		↑↓ = New OK = Store Code 01_ 2
Press the right arrow key to move to the next position.		↑↓ = New OK = Store Code 01_ 2_
Repeat the last two steps to enter the entire code.		↑↓ = New OK = Store Code 01_ 2345
Press the OK button. The entry is saved.		

Access code programming example

Selecting a relay, Selecting a gateway

Procedure	Function button	Display indicator
Selecting a relay If no relay is to be assigned to this code press the OK button.	–	Without ECE 602-… Time Relay 1 2 Code 01 _ With ECE 602-… Time Relay 1 2 3 4 5 6 7 8 Code 01 _
Press the right arrow key to move to the next position.		Time Relay 1 2 Code 01 _
Press the up arrow key.		Time Relay 1 2 Code 01 L
Press the OK button. The entry is saved.		
Selecting a gateway Gateway selection only appears if a gateway has already been programmed in the System menu. If no gateway is to be assigned to this code press the OK button.		Without ECE 602-… Time Sluice A B Code 01 _ With ECE 602-… Time Sluice A B C D Code 01 _
Press the right arrow key to move to the next position.		Time Sluice A B Code 01 _
Press the up arrow key.		Time Sluice A B Code 01 X
Press the OK button. The entry is saved.		

Procedure	Function button	Display indicator
Time control If this code is not to be lockable, press the OK button.		Timed by Input 1 Code 01 NO
Press the up arrow key.		Timed by Input 1 Code 01 YES
Press the OK button. The entry is saved.		↑↓ = New OK = Store Code 01 _
Press the ESC button.		CODE ↑↓ = Next OK = Prog
Press the ESC button.		SSS Siedle EC 602-03 V2.xx

In the SYSTEM menu, configure the relay and gateway functions, the system language and a system password.

1. Language
Configure the operating language of the EC 602-… in the Language submenu.

Procedure
1 Call up the SYSTEM menu.
2 Call up the Language submenu.
3 Select the required language (German/English).
4 Press OK to confirm.
5 Press the ESC button twice.

2. Relay function
Configure the local and/or global function of the EC/ECE 602-… relays in the Relay Function submenu.

Procedure
1 Call up the SYSTEM menu.
2 Call up the Relay Function submenu.
3 Configure the output of all local (L) or global (G) relays.
4 Press OK to confirm.
5 Press the ESC button twice.

3. Gateway function
In the Gateway Function submenu [Sluice function], program the gateway function (relay switching sequence) of the EC/ECE 602-…

Procedure
1 Call up the SYSTEM menu.
2 Call up the Gateway Function submenu.
3 Select the first gateway (e.g. A).
4 Select the first relay in the switching sequence at "Out1" (e.g. for relay 1).
5 Select the second relay in the switching sequence at "Out2" (e.g. for relay 2).
6 Press OK to confirm.
7 Program the second gateway (e.g. B) as before or press the ESC button twice to exit.
8 Press the ESC button twice.

4. Changing the password
In the Change Password submenu, define a sequence of numbers up to eight digits long to protect the EC 602-… against unauthorised access.

Procedure
1 Call up the SYSTEM menu.
2 Call up the Change Password submenu.
3 Use the arrow keys to enter the sequence of numbers.
4 Press OK to confirm.
5 Press the ESC button twice.

5. Disable time
In the Disable Time submenu, configure the amount of time for which the system will ignore all inputs after ten failed attempts to gain access.

Procedure
1 Call up the SYSTEM menu.
2 Call up the Disable Time submenu.
3 Select the required disable time (0–59 minutes).
4 Press OK to confirm.
5 Press the ESC button twice.

In the CODE menu, program the input code for using the COM 611-… in the access control system.

1. Entering a code
In the Code submenu, program the input codes for the COM 611-… input unit in the EC 602-…

Procedure
1 Call up the CODE menu.
2 Call up the Code programming submenu.
3 Select the required code number (e.g. code 01).
4 Enter the required numerical code (1–8-digit).
5 Press OK to confirm.
6 Press the ESC button twice.

2. Selecting a relay
In the Relay selecting submenu assign the associated relays to the code numbers in the EC 602-…

Procedure
1 Call up the CODE menu.
2 Call up the Relay selecting submenu.
3 Select the required code number (e.g. code 01).
4 Assign the required relay(s).
5 Press OK to confirm.
6 Press the ESC button twice.

3. Selecting a gateway
In the Gateway selecting submenu [Sluice selecting] assign the associated gateways to the code numbers in the EC 602-…
This menu item only appears if the gateway function has been set up in the SYSTEM menu.

Procedure
1 Call up the CODE menu.
2 Call up the Gateway selecting submenu.
3 Select the required code number (e.g. code 01).
4 Assign the required gateway(s).
5 Press OK to confirm.
6 Press the ESC button twice.

4. Time control
In the Code timing submenu, determine whether the relevant access option can also be deactivated via the wiring for control input E1.

Procedure
1 Call up the CODE menu.
2 Call up the Code timing submenu.
3 Select the required code number (e.g. code 01).
4 Select YES if you want it to be possible to deactivate the required Code number, otherwise select NO.
5 Press OK to confirm.
6 Press the ESC button twice.

In the KEY CARD menu, read in the key cards and program them for use of the ELM… in the access control system.

1. Card input
In the Card programming submenu, in the EC 602-… read in the key cards via the ELM… input unit and program them.

Procedure
1 Please number the key cards to be read in, starting with the number "001", to prevent mix-ups during programming, management or transfer to the user.
2 Call up the KEY CARD menu.
3 Call up the Card programming submenu.
4 Select the required key card number (e.g. card 001).
5 Hold the key card in front of the ELM… read device with the lowest Vario bus address in order to read the key card. Both LEDs will light up on the read device.
If the key card has been successfully read, the green LED on the ELM… will flash for 1 second as confirmation.
6 Confirm and save the read-in key card by pressing OK.
7 Press the ESC button twice.

Note
If you need to read-in more key cards at a later point, the first free key card number is displayed in the called-up Card programming menu. There can also be a gap in this, if, for example, a key card number had to be deleted. The read-in process is as described under point 5 and 6.

2. Selecting a relay
In the Relay selecting submenu assign the associated relays to the key cards in the EC 602-…

Procedure
1 Call up the KEY CARD menu.
2 Call up the Relay selecting submenu.
3 Select the required key card number (e.g. card 001).
4 Assign the required relay(s).
5 Press OK to confirm.
6 Press the ESC button twice.

3. Selecting a gateway
In the Gateway selecting submenu [Sluice selecting] assign the associated gateways to the key cards in the EC 602-…

This menu item only appears if the gateway function has been set up in the SYSTEM menu.

Procedure
1 Call up the KEY CARD menu.
2 Call up the Gateway selecting submenu.
3 Select the required key card number (e.g. card 001).
4 Assign the required gateway(s).
5 Press OK to confirm.
6 Press the ESC button twice.

4. Time control
In the Code timing submenu, determine whether the relevant access option can also be deactivated via the wiring for control input E1.

Procedure
1 Call up the KEY CARD menu.
2 Call up the Code timing submenu.
3 Select the required key card number (e.g. card 001).
4 Select YES if you want it to be possible to deactivate the required key card number (e.g. internal), otherwise select NO.
5 Press OK to confirm.
6 Press the ESC button twice.

In the KEY BUTTON menu, define whether internal/external key buttons from COM/DRM 611-… can be used to trigger the relay or gateway functions in the access control system.

1. Selecting a relay
In the Relay selecting submenu assign the associated relays to the key buttons in the EC 602-…

Procedure
1 Call up the KEY BUTTON menu.
2 Call up the Relay selecting submenu.
3 Select the available key button type (internal/external).
4 Assign the required relay(s).
5 Press OK to confirm.
6 Press the ESC button twice.

2. Selecting a gateway
In the Gateway selecting submenu [Sluice selecting] assign the associated gateways to the key buttons in the EC 602-…

This menu item only appears if the gateway function has been set up in the SYSTEM menu.

Procedure
1 Call up the KEY BUTTON menu.
2 Call up the Gateway selecting submenu.
3 Select the available key button type (internal/external).
4 Assign the required gateway(s).
5 Press OK to confirm.
6 Press the ESC button twice.

3. Time control
In the Code timing submenu, determine whether the relevant access option can also be deactivated via the wiring for control input E1.

Procedure
1 Call up the KEY BUTTON menu.
2 Call up the Keybutton timing submenu.
3 Select the available key button type (internal/external).
4 Select YES if you want it to be possible to deactivate the required key button type (e.g. internal), otherwise select NO.
5 Press OK to confirm.
6 Press the ESC button twice.

In the Time menu, configure the relay switching times and the gateway pause times.

1. Relay
In the Time Relay submenu, configure the switching times for the relays in the EC 602-…

The switching time of a relay is the time (after a relay has been triggered) that a relay remains in its new switching state before it switches back to its original state.

Procedure
1 Call up the TIME menu.
2 Call up the Time Relay submenu.
3 Select the required relay number (e.g. relay 1).
4 Configure the required release time.
5 Press OK to confirm.
6 Configure other relays or press the ESC button twice.
7 Press the ESC button twice.

2. Gateway
In the Gateway submenu [Time Sluice], configure the pause times for the gateways in the EC 602-…

The pause time of a gateway is the time period between two switch-on phases of the first and second relay, with the gateway function (e.g. relay 2 is not triggered for 30 seconds after relay 1 has been triggered).

Procedure
1 Call up the TIME menu.
2 Call up the Time sluice submenu.
3 Select the required gateway (e.g. Sluice A).
4 Configure the required pause time.
5 Press OK to confirm.
6 Configure other gateways or press the ESC button twice.
7 Press the ESC button twice.

Deleting data

In the DELETE menu, delete the set password, programmed codes, read-in key cards and configured gateway functions from the EC 602-…
If there is no data available for deletion, a "No Data" message will appear.
If several codes are available, for example, then the next code will appear after each deletion process, otherwise the next submenu will appear (e.g. Clear ID-Card).

Procedure
1 Call up the DELETE menu.
2 Select Clear password, Clear code, Clear ID-Card or Clear gateway.

Remarks
The deletion process enables all deletable data (password, code, card, gateway) to be deleted by repeatedly pressing the OK button until the "No Data" message appears. If necessary, use the Reset function for extensive deletion.

3 Select the data you want to delete.
4 Press the OK button twice to confirm deletion or the ESC button to cancel the process.
5 Press the ESC button twice.

Displaying the configuration

In the INFORMATION menu you can view the configuration of programmed codes and key cards that have been read in.

Procedure
1 Call up the INFORMATION menu.
2 Call up the Show code or Show ID-Card submenu.
3 Select the required code number (e.g. code 05) or key card number (e.g. card 003) and press the OK button to confirm.
4 Only relevant for Show code: Enter the programmed code (e.g. 75296) and press the OK button to confirm.
5 Press the up/down arrow key to view the individual configurations of the selected code or key card.
6 Press the ESC button twice.

Reset (Reset)

A reset deletes all inputs including the password and restores the as-delivered status.

Please note that you must confirm both the prompt and the confirmation prompt within five seconds by pressing OK, otherwise the process will be aborted.

Procedure
1 Switch off the supply voltage.
2 Press and hold the up arrow key.
3 Switch the supply voltage on.
4 Once the "Clear data" prompt appears after approximately seven seconds, release the up arrow key.

5 Press the OK button within five seconds to carry out the reset or press the ESC button to cancel the process.

6 Press the OK button within five seconds to confirm the "Really delete?" confirmation prompt and carry out the reset or press the ESC button to cancel the process.
7 Once the reset process has started, "Please wait" will appear on the display.
8 If the reset was successful, the start screen will be displayed.

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