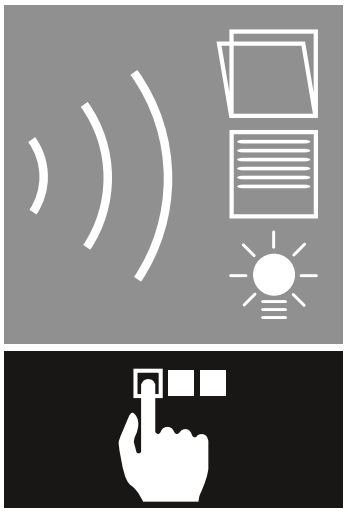

Doc. No. 10000425841_12_EN / 08.2022

Aluminium systems

Schüco Automation Engineering Tool

en

Operating instructions
Schüco Automation Engineering Tool

en

Schüco Automation Engineering Tool

Doc. No. 10000425841_12_EN / 08.2022

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1 Notes on this document

1.1 Target groups and qualifications

This document is intended for qualified personnel. Before installing and commissioning, read through this document and adhere to the specified sequence of the instructions. Schüco International KG shall not be liable for any damage which arises from a failure to adhere to these instructions.

Qualified personnel are people who know how to assemble, install, commission, test and operate the product and who have the relevant qualifications, e.g. who have been trained and instructed in accordance with safety regulations on the maintenance and use of appropriate safety equipment and who have received training in first aid.

Experts are people whose training and experience means that they have sufficient knowledge of power-operated windows, doors and gates and the corresponding electrical installations. They are familiar with the relevant accident prevention regulations, government health & safety regulations, guidelines and generally recognised technical regulations so that they are qualified to judge the occupational safety of power-operated windows, doors and gates and the corresponding electrical installations.

1.2 Handover of the document

After commissioning, hand over all the documentation pertaining to this product to the end customer. Make them aware of the safety instructions, to which they must pay particular attention. The documentation should also be transferred to others using the product. The documentation for Schüco products can also be downloaded from www.schueco.com.

INFORMATION

Please follow the Automation Manager, interface and gateway operating instructions.

Only installation and operation of the commissioning software are described in these instructions. For Automation Manager commissioning, see the quick start guide enclosed with the Automation Manager. You can download the complete Automation Manager operating instructions from www.schueco.com.

2 Safety

2.1 About the safety instructions

 KEY WORD

Type / source / consequence of the danger

Pictograms and key words advise of the type of danger and the level of danger:

 General personal injury  Personal injury from electrocution  Damage to property

DANGER		Imminent danger resulting in death or severe injuries.
WARNING		Potential imminent danger which may lead to death or severe injuries.
CAUTION		Potentially dangerous situation which may lead to minor injuries.
NOTE		Imminent danger of damage to property which may lead to damage to or destruction of the product or environment.
INFORMATION		Information Information, tips and advice

2.2 General safety instructions

Follow the safety instructions in this document so as not to endanger your own life or that of others and to ensure error-free operation.

3 Product description

3.1 About the software

The Schüco Automation Engineering Tool is a convenient interface for managing and commissioning Schüco units and all Building Skin Control components. The software offers the following advantages and functions:

- Optimum system configuration through fine adjustments of the system parameters (opening sequence, opening width, time settings etc.)
- Activation and deactivation of additional functions (cooling function, air quality etc.)
- Option to back up and recopy all data

The Schüco Automation Engineering Tool offers the possibility to initialise and manage each individual unit or the entire system.

In these instructions, you will find help for installing the software on your PC, and a description of the range of functions of this software.

INFORMATION

For reasons of simplicity, this documentation does not include details on every operating option and setting, as many are self-explanatory (e.g. the operating options in the Service tab of the Schüco TipTronic units). It does not claim to be complete, which means that, if required, the documentation on Schüco units or the Automation Manager units must be consulted.

4 Installation

4.1 System requirements

In order to install the Schüco Automation Engineering Tool, you need a computer with the following system requirements:

Operating system: Windows 10

4.2 Software installation

INFORMATION

Once you have completed free registration, the software is available for you to download from www.schueco.de.
Always use the most up-to-date version of the software.
Ensure that you have administrator rights on your computer for the installation.

To install the software, proceed as follows:

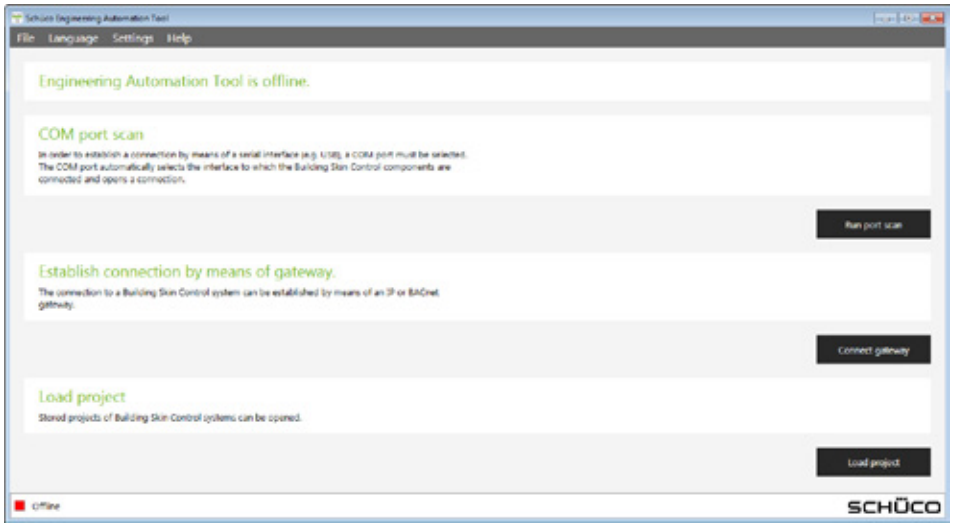
1. Close all open windows and/or end all running programs before you begin the installation.
2. Start the installation.
3. Then follow the on-screen instructions and apply the appropriate settings.

» The software is installed.

During installation, a folder is automatically created in the Start menu of Windows ®. You can use this to start the software. You can create a link on the desktop. This means you do not have to constantly use the program folder in the Start menu.

5 Connecting to Building Skin Control

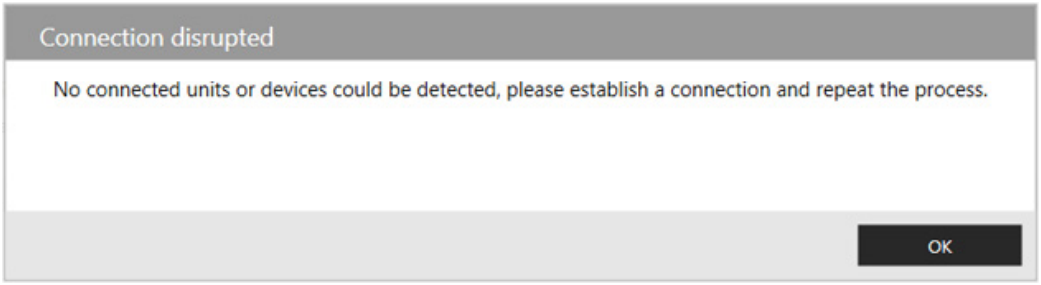
Once the Automation Engineering Tool software is started, the connection window appears immediately. The software is still “offline” until a connection type is chosen.



5.1 Running a port scan

Click “Run port scan” to connect the program to the computer via the communication interface (COM). The Automation Manager or bus adapter interface for the unit bus must be connected by means of a USB cable for this.

If no Automation Manager or unit can be detected on the bus adapter interface during the port scan, the pop-up window “Connection disrupted” appears.



To remedy this:

1. Check the USB connection between the computer and Automation Manager or bus adapter interface. If necessary, replace the USB cable.

2. Check whether a COM port is displayed by clicking “Settings → COM settings”.

3. Select the first COM port. A connection attempt is then made via this interface.

4. Repeat this process with the other COM ports where necessary.

5. A connection has been established with the bus adapter interface, but no units (or not all units) have been found.
   Run the “Automatic address assignment” under the tab “Administration → Sort units”

5.2 Connecting a gateway

Click on “Connect gateway” to establish a remote connection to an Automation Manager via an IP or BACnet gateway. If an IP gateway is used, for example, Customer Services can be contacted via the internet for a remote diagnosis. For this, a person on-site must enable access to the Automation Manager. The specialist installer can use the WLAN interface of the IP or BACnet gateway to override the system on-site without having to be connected to the computer via USB cable.

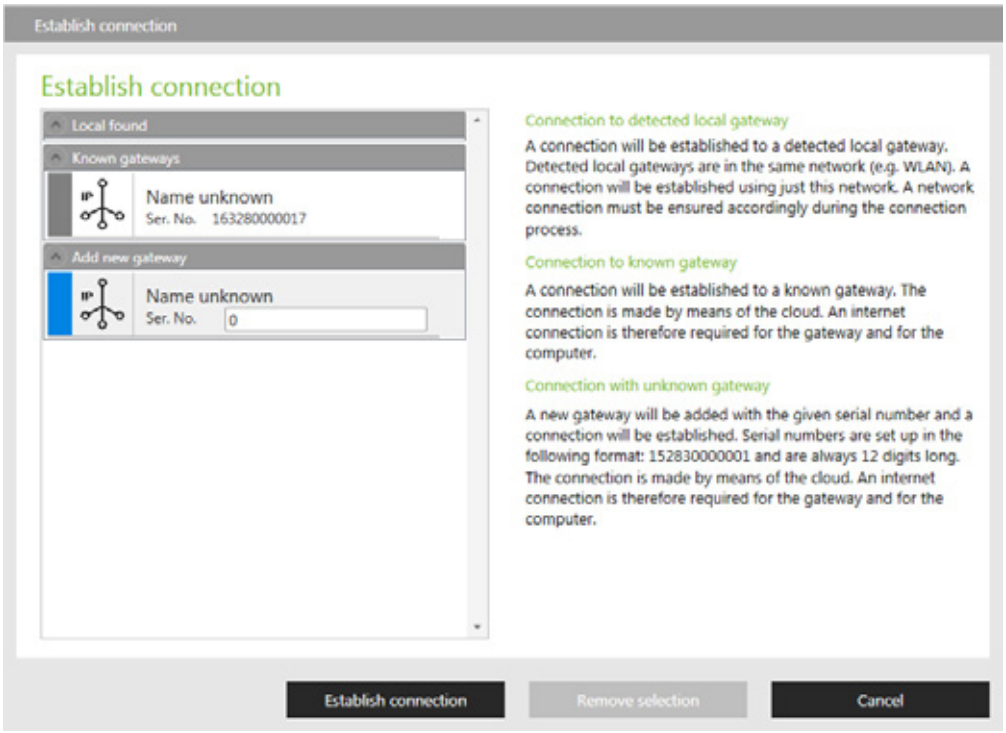
A pairing process with the respective gateway is essential in order to protect the Schüco Building Skin Control system from unauthorised access attempts via the gateway and to determine the credentials of the users. This process is triggered as soon as a connection with the software is to be established via the IP or BACnet gateway.

Connection by means of IP gateway
The IP gateway must be connected to the router via an Ethernet cable or in the WLAN client mode. For a local connection, the WLAN hotspot mode is also possible. See section “14.5 IP Gateway” on page 116.

Connection by means of BACnet gateway
For this, the BACnet gateway must be fitted with a WLAN antenna and configured as a hotspot, and the computer with the Automation Engineering Tool software must be in its WLAN network. See section “14.6 BACnet Gateway” on page 120.

Establishing a connection
1. Once the AET software has started up, click “Connect gateway”.
   Or click “Settings – Connection with gateway” in the main menu.

» The pop-up window “Establish connection” appears.

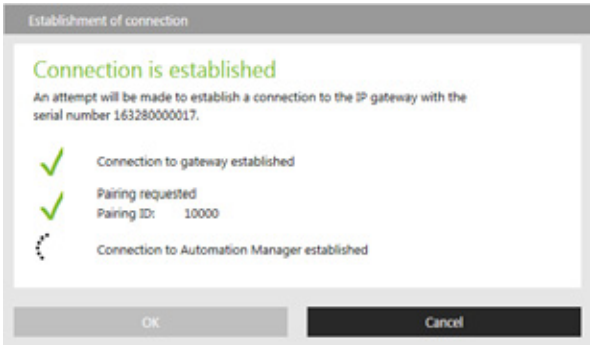


2. In the “Establish connection” pop-up window, click on a gateway type.

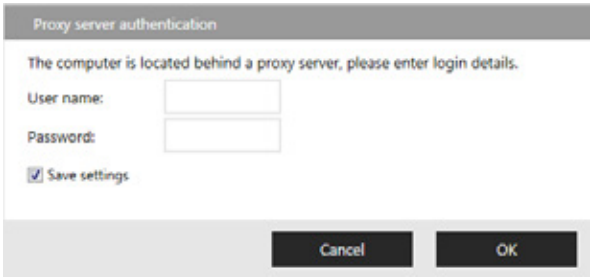
Local found
Here, gateways which are in the same network as the PC are shown. For example, a BACnet gateway.

Known gateways
Gateways that have already been added using the software are available under “Known gateways”.

Add new gateway
Here you can connect an IP gateway by entering the serial number.



1. After selecting a gateway, click “Establish connection”.
» The connection to the gateway is established and the pairing process is requested on the Automation Manager.



» If your computer accesses the internet via a proxy server, the “Proxy server authentication” pop-up window appears for the connection establishment. Enter your username and password for accessing the network in which your computer is located.

» When establishing a connection to the gateway for the first time, the following Windows security notification may appear: “The Windows firewall has blocked some features of this program”.

» Enable access to the network for the Automation Engineering Tool software.

2. The pairing request must be confirmed on the Automation Manager by a person on site.
» The Automation Manager switches to remote mode and the connection is activated.

» The “Update” pop-up window appears in the Automation Engineering Tool software.

» Shortly afterwards, the Building Skin Control can be accessed.

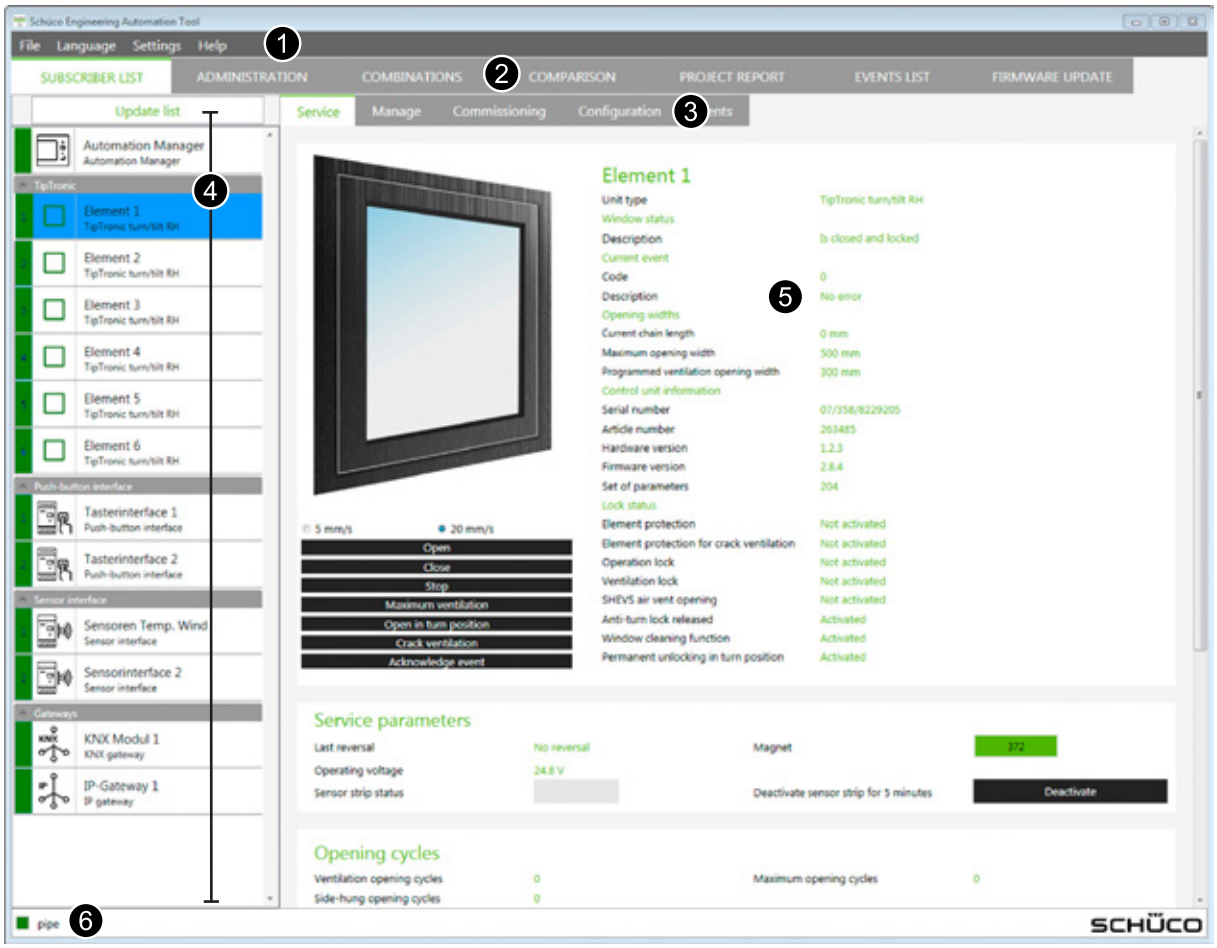
INFORMATION

Remote mode can be exited by pressing the confirmation button (OK) on the Automation Manager. The Automation Engineering Tool software ends the connection when it is closed or if a connection is established with a different Building Skin Control system.

5.3 Load project

Clicking on the “Load project” button opens the file selection window and recopies all project data to the Automation Engineering Tool program. This function is helpful when changing a subscriber. After loading, you can edit the data before it is transferred to a subscriber.

6 Overview of the user interface



❶	Program menu bar See section “8 Program menu bar” on page 22.	❹	Attendees List See section “9.1 Subscriber list” on page 24.
❷	Main menu bar See section “9 Main menu bar” on page 24.	❺	Work space
❸	Selection of tabs for the unit or system settings	❻	Status bar

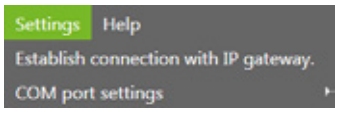
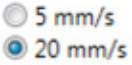
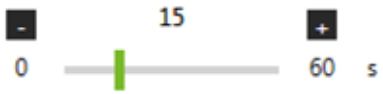
INFORMATION

The choice of tabs shown depends on the selected unit from the subscriber list.
The number and names of the tabs can therefore vary for each unit.

INFORMATION

The status bar shows you the connection status between the PC and Automation Manager
Green - Connection OK
Red - Connection disrupted

6.1 Overview of operating controls

Operating unit	explanation
Program menu 	Click to select. If units are not available, they are shown in grey. If other submenus are available, they are displayed by means of a triangular arrow after the menu item.
Main menu bar, selection of tabs and subscriber list 	Click to call up. » If no function is running yet, only the work space view changes
Buttons 	Click to run. » The specified function runs immediately. » The background colour changes if the mouse hovers over the button.
Check boxes 	Click to select. » Activates/deactivates the specified function.
Option fields 	Click to select option.
Drop-down lists 	Click to open list, then click again to select an option.
Sliders 	Change settings by moving the mouse or clicking on the -/+ symbol.
Entry fields 	Click to select. Then enter the name or value using the keyboard.

6.2 Recommendations

Names
20-character names can be assigned to all units, the inputs and outputs, and the sensors. However, the Automation Manager can only display the first 17 characters. This is why, if possible, you should note the most important identification features in the first 17 characters of the name.

Example: TipTronic turn/tilt window Closes to the right in building A04 Room 28		Display in AET software	Display on Automation Manager
X	Possible name allocation	TT DK RS A.04.28 F12	TT DK RS A.04.28
√	Alternative name	A.04.28 F12 TT DK RS	A.04.28 F12 TT DK

Power management
The power management is set to 10 seconds in the factory. To change the power management times, please use the following table in order to prevent overloading the power packs.

Opening width (chain length)	Break in travel	Opening width (chain length)	Break in travel
170 mm	4 - 6 s	300 mm	10 s
200 mm	6 - 8 s	400 - 500 mm	15 s
250 mm	8 - 10 s	600 mm	20 s
		800 mm	30 s

INFORMATION

Please use the “Schüco TipTronic SimplySmart” planning manual for a precise layout of the power packs and power management.

Address assignment
When assigning addresses, for example when replacing an electronic control unit, only use the automatic address assignment. Units (electronic control units) without an address will be assigned an available address. Units that have already been addressed retain their address.

Security settings
Only activate the security speed and operation without latching feature (dead man operation) when you need to achieve safety class 3. You must enter the password “783665” to deactivate the security settings.

7 Typical tasks

7.1 Commissioning

The following steps describe a possible commissioning and configuration sequence for Schüco units using the Automation Engineering Tool software (AET).

1. PC connection

Once the Automation Manager is installed, it must be connected to a PC with the Schüco Automation Engineering Tool software. A USB cable is used to connect the PC to the mini USB port on the Automation Manager.

2. Program launch

After launching the program, you need to run a port scan or load a project file, so that the units can be made known in the software.

Following the port scan or once the project file is loaded, you will see an updated image of the Automation Manager with all accessible subscribers. During initial commissioning or following a factory reset of the Automation Manager, this is just the Automation Manager itself.

3. Basic configuration of the Automation Manager.

When starting up the software for the first time, you can configure the following settings: time, date and display language. If you have already configured these settings using the Automation Manager, this step is not necessary.

» See section “10 Configuration of Automation Manager” on page 47.

4. Updating the device bus

Devices that were not detected by a device bus update cannot be controlled by the Automation Manager. This process is therefore essential in order to integrate (new) subscribers such as button interfaces.

» See section “9.2.3 Searching for devices” on page 29.

5. Configuring system units on the device bus

The system units on the device bus of the Automation Manager can be adjusted to the specific system requirements.

» See section “14 Configuration of interfaces and gateways” on page 107.

6. Addressing units

Units connected to the unit bus must have a unique address so that they can be addressed. This can be carried out automatically or manually.

» See section “9.2.1 Addressing units” on page 26.

7. Setting the order of the units

If address assignment is automatic, the order for operating the units is random. This order can be individually adjusted to the actual installation order of the units by means of the “Sort units” menu.

» See section “9.2.2 Sorting units” on page 28.

8. Commissioning Schüco units

The commissioning assistant supports you with the unit settings and tests in five steps:

1. Start commissioning (Function test for individual components and selection of unit options)
2. Programming the zero position (drive and magnet test)
3. Programming the maximum opening width.
4. Unit configuration (setting the ventilation opening width, operating and security functions)
5. Completing commissioning (moving the unit and testing the sensor strip)

» See section “12.4 Commissioning” on page 77.

9. Adding combinations

Combinations perform actions / functions at the assigned units. Combinations are assigned by means of the Automation Manager or the AET software.

» See section “9.3 Combinations” on page 31.

7.2 Replacing a system unit on the Automation Manager

After replacing an interface or gateway, you must make this system unit known to the Automation Manager.

» See section “9.2.3 Searching for devices” on page 29.

This system unit must then be configured.

» See section “14 Configuration of interfaces and gateways” on page 107 and beyond.

7.3 Replacing the Automation Manager

As the Automation Manager is the central system unit for the Building Skin Control, you must carry out commissioning steps 3, 4 and 6 if it is replaced.

» See section “12.4 Commissioning” on page 77.

The configurations of the interfaces, gateways and Schüco units are still saved in the respective components.

When addressing the units, you must select the “Automatic address assignment”. This ensures that all units retain their address.

» See section “9.2.1 Addressing units” on page 23.

The combinations do not need to be recreated. They can be loaded by means of “Combinations” / “Load from file”.

» See section “9.3 Combinations” on page 31.

8 Program menu bar

8.1 File

Under this menu item, you can:

Save a **back-up** of all system data.

Save the project file. The project file saves all project data in the Schüco system file (*.san). This includes all configured data, from the subscriber list and parameters through to the combinations. Once the Automation Engineering Tool software is launched, you can load the project by clicking “Load project”.

Click **Exit** to leave the program.

8.2 Language

Under this menu item, you can Change the program language. After starting the program, select the desired language. Changing the language while you are working with the program may cause the program to close unexpectedly.

8.3 Settings

Under this menu item, you can Choose how the program is connected to the Building Skin Control. The connection can be made via a USB cable (COM settings) or a gateway (connection with gateway). See section “5 Connecting to Building Skin Control” on page 10.

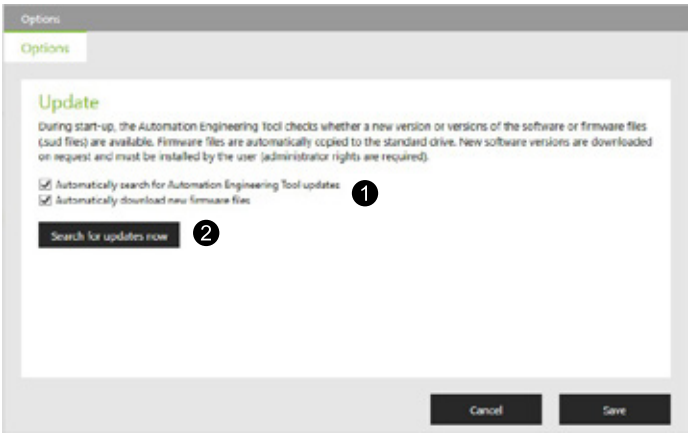
Update preferences can also be set under the “Options” item. By checking the corresponding check box (1) you can set whether:

- To automatically search for updates to the Automation Engineering Tool on start up
- To automatically download new firmware files

It is also possible to manually check for updates at any time. To do this, click on the “Search for updates” button (2).

INFORMATION

The check boxes (1) determine what is searched for when clicking on the “Search for updates” button (2).

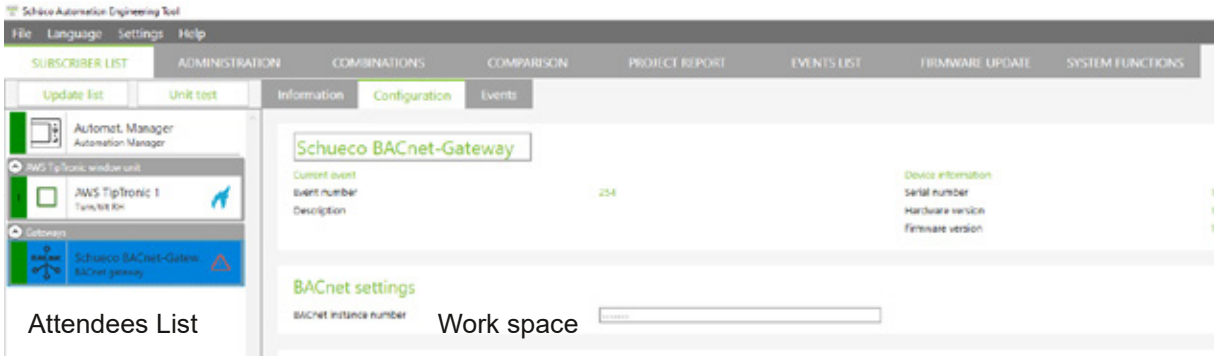


8.4 Help

Under this menu item, you can Display this file, the licence conditions or the software version of the program.

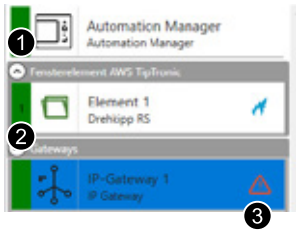
9 Main menu bar

9.1 Attendees List



The subscriber list displays all device and unit bus units which are connected to the Automation Manager.

9.1.1 Unitinformationen in der Teilnehmerliste



Each unit has a coloured rectangle (1) with a letter or number next to its name (2). Special events are shown to the right of the name by means of symbols (3).
Meaning of the colours:

Green - The unit is online, has been commissioned and is known to the Automation Manager

Yellow - The unit is online and in commissioning mode

Red - The unit is in update mode

Grey - The unit is offline and cannot be found in the system

Blue - The unit is not known to the Automation Manager

Meaning of the letters and numbers:
D - Default address, pre-set address when delivered or following reset
N - New unit
1 , 2,... - Device or unit is linked to the bus as the nth unit

Meaning of symbols:

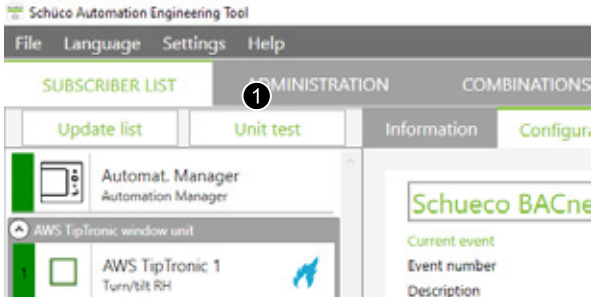
SHEVS mode of the unit.
The unit cannot be operated by means of the work space.

Warning, for this unit there is an event which is explained in the work space (e.g. update has failed, subscriber ready for pairing).

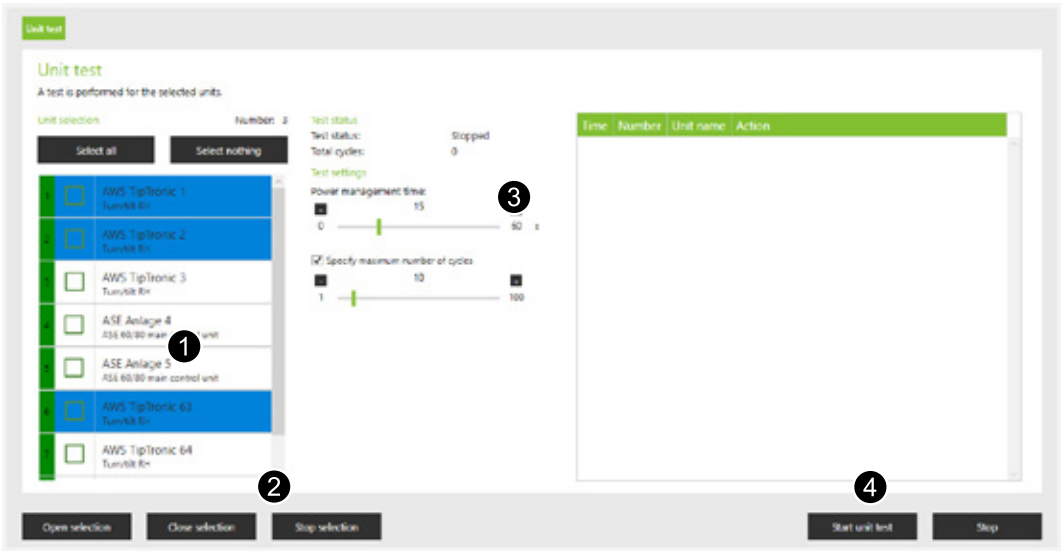
Loading circle
Settings for this unit are synchronised. It is not possible to operate the unit during this time, but other settings can be made.

For a detailed description of the settings and operating options for the subscriber list, see section “12 Configuration of AWS TipTronic” on page 73.

9.1.2 Unit test



The unit test (1) makes it possible to open or close selected units to test that they work correctly.



1. Select the units that are to be opened or closed (1).
2. Click on „Open selection“, „Close selection“ or „Stop selection“ to start a one-time test of the respective function (2)
   or
2. Specify a start-up delay under „Power management time“ (3) using the slider.
3. If necessary, specify a number of cycles under „Specify maximum number of cycles“ (3)
4. Click on „Start unit test“ to test the units in a continuous run.

9.2 Administration

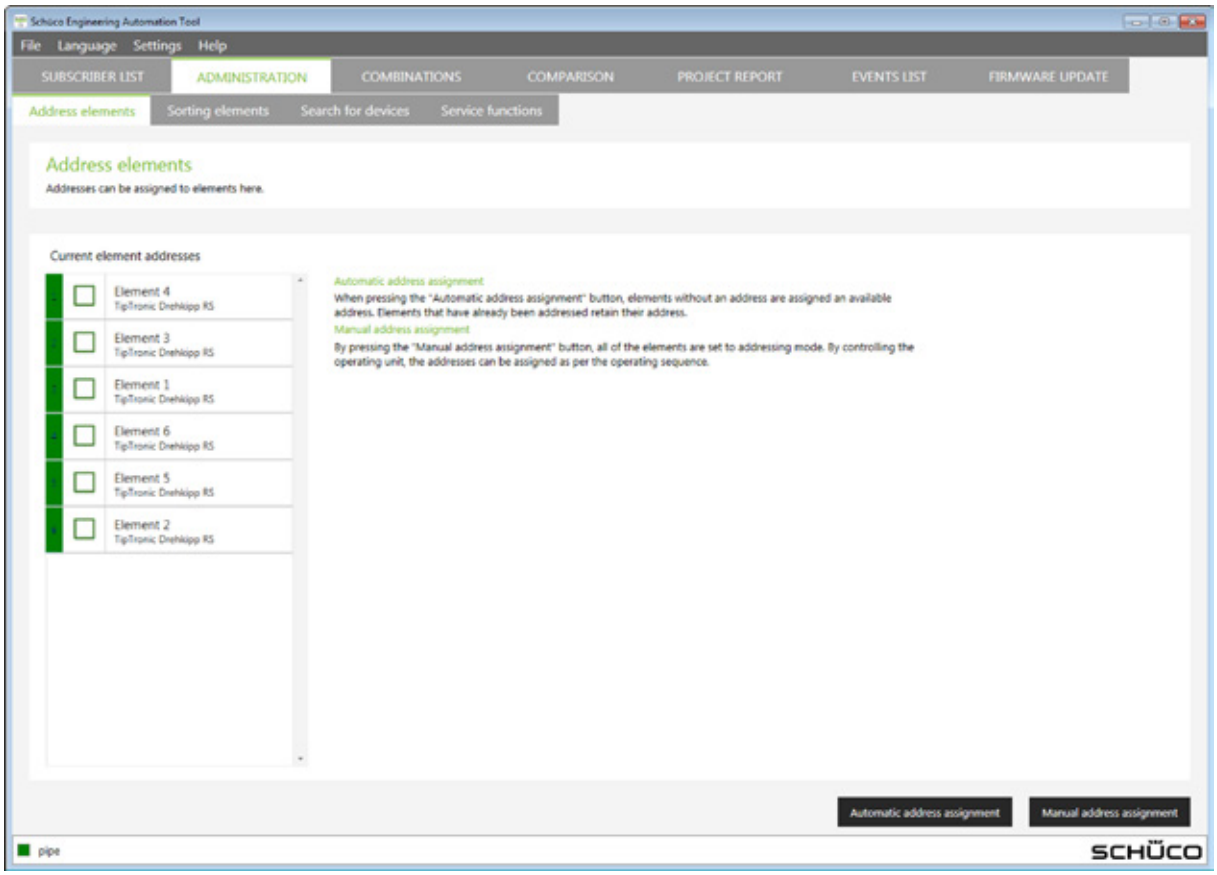
9.2.1 Addressing units

Units connected to the unit bus must have a unique address so that they can be addressed. This can

be carried out automatically or manually.

INFORMATION

This action is absolutely necessary when new units are connected as the new units are not registered automatically.



1. Click on “Administration” in the main menu
2. Click on “Address units” in the tab selection.
3. Click on “Automatic address assignment” in the work space.

» The “Address assignment” pop-up window is displayed and a search for new units is performed.
Units without an address will be assigned an available address.
Units that have already been addressed retain their address.
This process can take several minutes.

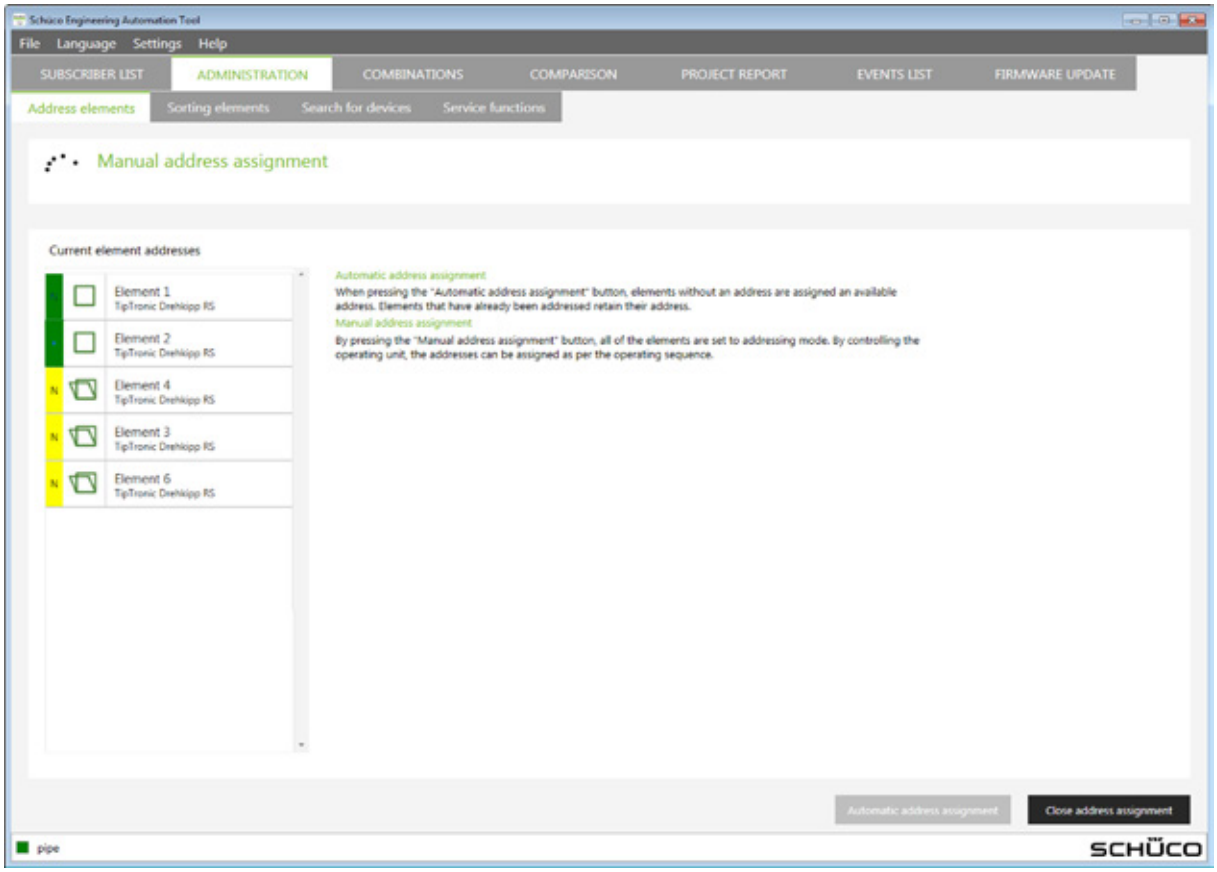
» The message “Transfer complete” signals that the unit search has ended.

» In the “Current unit addresses” area, the units are shown with their subscriber number (1, 2, 3 etc.) and their name.

or

3. Click on “Manual address assignment” in the work space.

» All connected units are set to addressing mode.
In the work space, a rotating row of dots is shown in front of the “Manual address assignment” text.



4. Determine the sequence in which the windows are to open using the operating switch on the units.

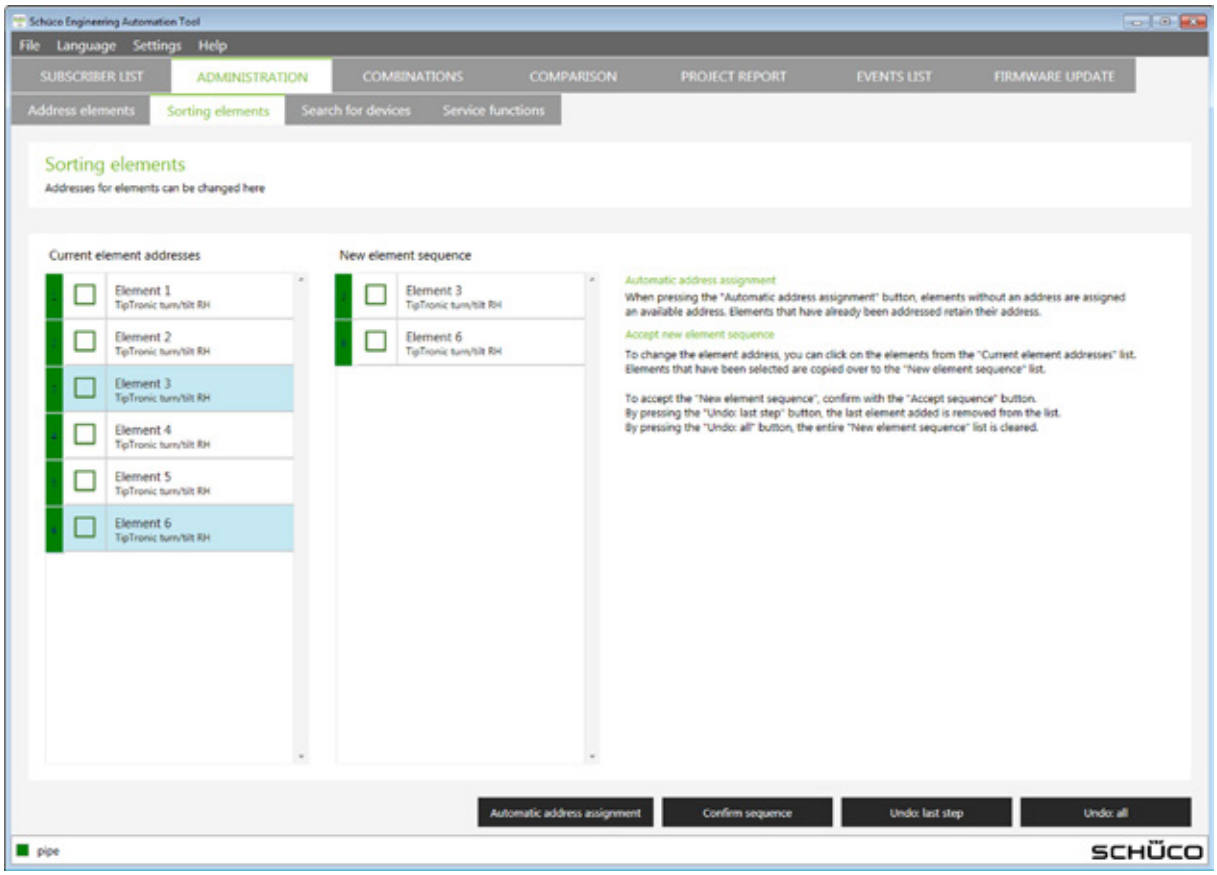
» The next available address is assigned to the unit
» The light ring changes from fast to slow flashing.
» The active units are shown in the “Current unit addresses” area.

5. To end the selection, click “Close address assignment”.

» The addresses are assigned and saved in accordance with the operating sequence.

9.2.2 Sorting units

If address assignment is automatic, the order for operating the units is random. This order can be individually adjusted to the actual installation order of the units by means of the “Sort units” menu.



1. Click on “Administration” in the main menu.
2. Click on “Sort units” in the tab selection.

» In the work space, the units are displayed in their current address sequence.

3. Click on the units in the required sequence.

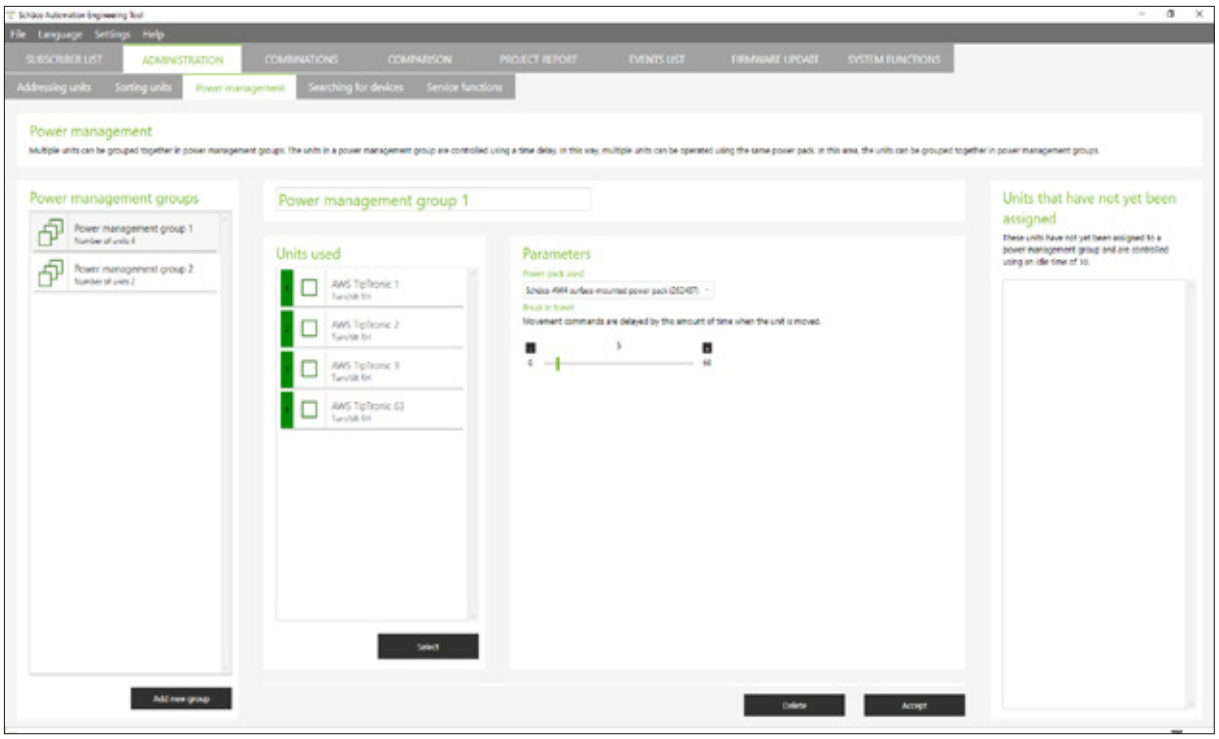
» The units appear in the “New unit sequence” list.

4. You can change the order once again using the “Undo last step” (can be performed repeatedly) or “Undo all” buttons.
5. Click “Confirm sequence”.

» The “Address assignment” pop-up window appears and the list is transferred to the Automation Manager.
» The units are marked in the address lists with “N” – new address.

9.2.3 Power management

You can use the „Power management“ menu to ensure that the power supplies for TipTronic units are not overloaded. Different units place different demands (connected load) on the power supply units and place different loads on them. In order not to overload the power supply units, the ETA offers the possibility to define start-up delays for the control of TipTronic units.

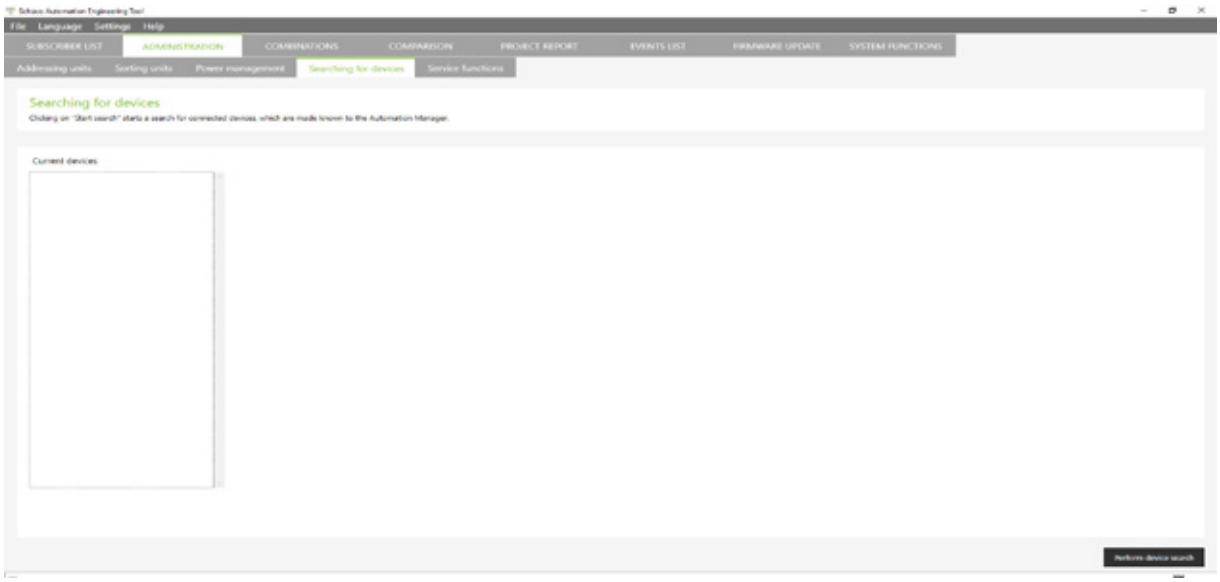


To minimize the number of power supplies required, you can use the „Power management“ menu to combine units into groups and select for each group which power supply will provide the units with voltage. Based on your selection, the ETA suggests a start-up delay, which you can adjust if necessary. Thus, you can define a start-up delay for each group individually.

You can change created groups at any time and add or remove units, change the power supply or adjust the start-up delay.

9.2.4 Search for devices

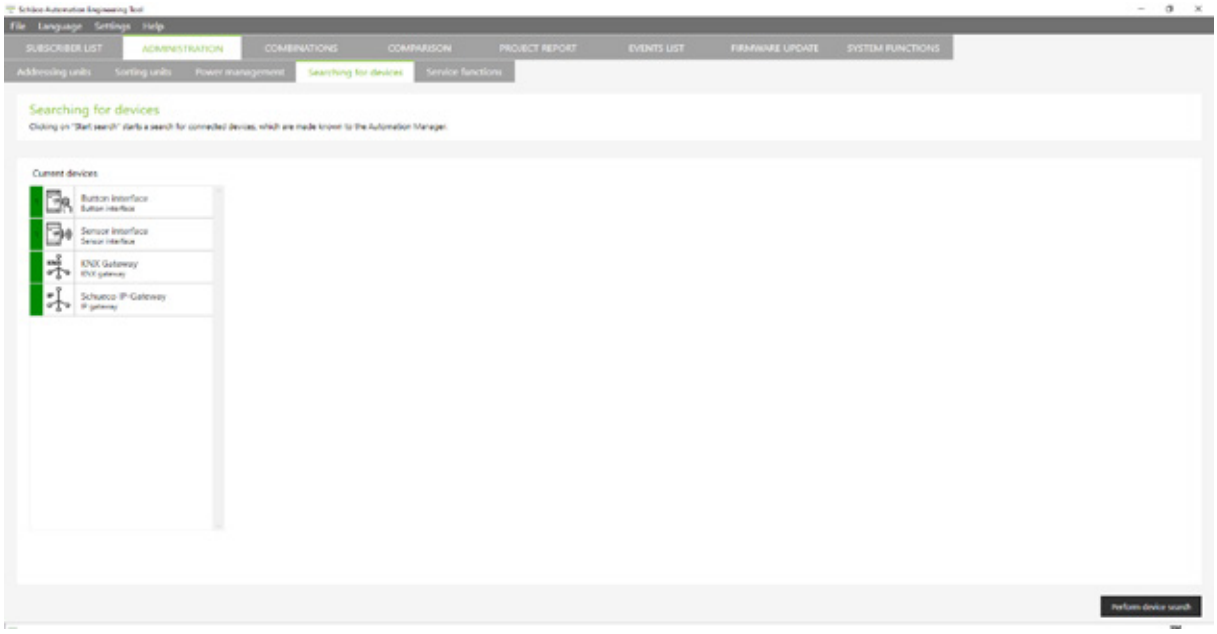
Devices that were not detected by a device bus update cannot be controlled by the Automation Manager. This process is therefore essential in order to integrate (new) subscribers such as button interfaces.



1. Click on “Administration” in the main menu
2. Click on “Search for devices” in the tab selection.
3. Click on “Perform device search” in the work space.

» A search is made for connected devices, which are made known to the Automation Manager.

» The message “Transfer complete” signals that the device search has ended.



4. In the main menu, click “Subscriber list” → “Update list”.

» The subscribers connected to the device bus are transferred to the program and displayed.

9.2.5 Service functions

System-wide functions are summarised under this menu item.

Address reset
When an address reset is performed, all of the unit addresses and combinations are reset. The specific unit parameters such as maximum opening width remain unchanged.

Factory reset
A factory reset resets all subscribers to the default values.

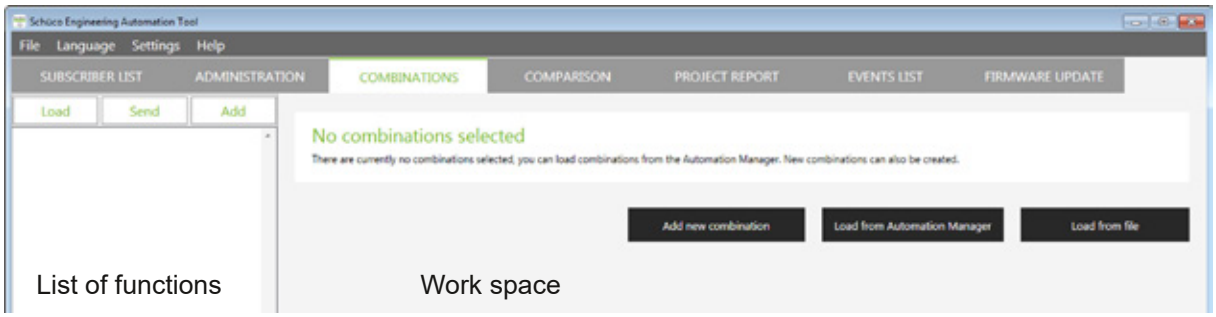
9.3 Combinations

Combinations perform actions / functions at the assigned units. Combinations are created by means of the Automation Manager or the AET software.

INFORMATION

Combinations that have been created or changed using the Automation Engineering Tool software cannot be processed on the Automation Manager.
Combinations which were created on the Automation Manager, however, can be processed using the Automation Engineering Tool software.

9.3.1 Overview



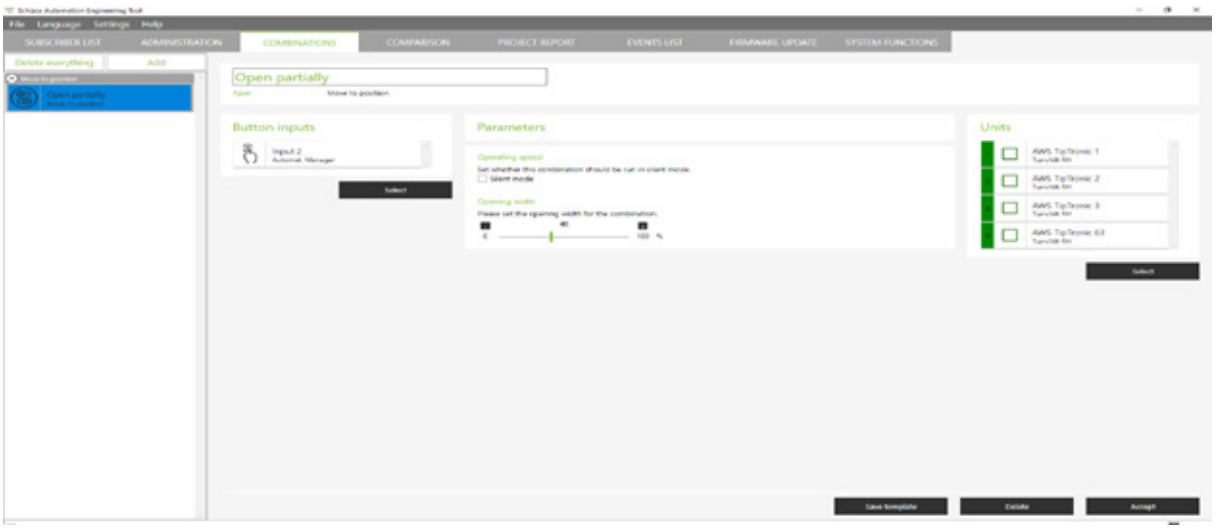
1. Click on “Combinations” in the main menu.
2. In the work space you can load and further process existing combinations from the Automation Manager by means of “Load from Automation Manager”, create new combinations with the Automation Engineering Tool software and transfer them to the Automation Manager by means of “Add new combination”, and load and further process combinations from a Schüco system file by means of “Load from file”.

» If no combinations have been created yet, the functions list is empty.

3. After loading the existing combinations, you can edit them or add new combinations.

INFORMATION

The functions listed in the functions list depend on the relevant system and can therefore vary from system to system.



Select a function from the functions list.

» The selected function is highlighted in blue.

» In the work space you can now change the settings for this function or delete the function.

4. Once you have finished making changes, click “Apply”.
» The combination is transferred to the Automation Manager.

» The pop-up window “Transfer complete” informs you of this.

or

4. Click “Add” at the top of the functions list.
» Follow the instructions of the combination wizard.

5. Click “Finish”.
» The combination is transferred to the Automation Manager.

» The pop-up window “Transfer complete” informs you of this.

Under the “Combinations” menu item, the set-up sequence is always the same. Only the parameters that can be set vary depending on the function.

INFORMATION

A differentiation is made between the following functions:

- **Disable commands** remain until they are cancelled. If, for example, a switch is connected, this disable function is active until the switch is deactivated. The individual disable functions are weighted differently so that one disable function may override another and is therefore not executed.
- **Switch movement commands** activate a function only once when they are actuated.
- Information/message are purely output functions which are shown when a particular event has occurred (e.g. relay dropped out).
- Automatic functions are executed independently when a pre-defined parameter (e.g. time) has been reached.

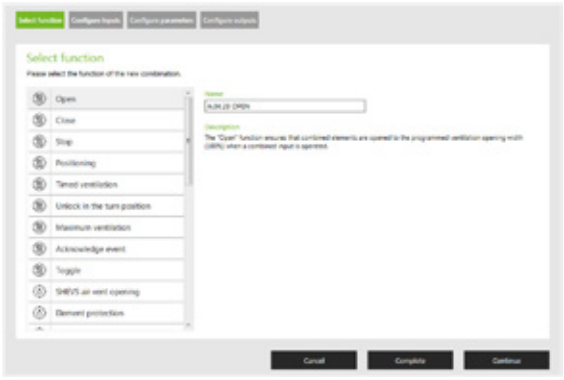
9.3.2 Open Switch movement commands

If an input is combined with “Open” and activated, the units combined with the input are opened. For windows, executing this means moving to 100% of the programmed ventilation opening width. For sliding systems, executing this means moving to the maximum programmed opening width.

(Default configuration for input 1 on the Automation Manager: All unit are combined with this input and the “Open” function when delivered and following a factory reset for the Automation Manager)

1. Click on “Combinations” in the main menu.
2. Click “Add” at the top of the functions list.

» Follow the instructions of the combination wizard.



3. Click the “Open” function.
5. Enter a name for this function.
4. Click “Next”.
5. Select the input which is to activate this function.
6. Multiple selection is possible.
6. Click “Next”.
7. Configure the parameters.
7. For the Open function, this is the operating speed.
8. Click “Next”.
9. Select units which are to be controlled with this function.
10. Click “Finish”.

» The combination is transferred to the Automation Manager.

» The pop-up window “Transfer complete” informs you of this.

The procedure described above repeats for all functions. The number of parameters varies. With some functions, a selection can be made as to whether the function is to be controlled by means of the BSC app.

9.3.3 Additional functions

The following functions can be set using the Automation Manager. Follow the instructions of the combination wizard:

Close Switch movement commands
The „Close“ function ensures that combined units are closed when a combined input is operated.

Stop Switch movement commands
The „Stop“ function ensures that combined units are stopped when a combined input is operated.

The command is sent immediately. As the units are addressed successively, a small time delay between the stopping of several units cannot be avoided.

Open/close/stop Switch movement commands
The „Open/close/stop“ function is a combination of the „Open“ and „Close“ functions. The open input behaves like the „Open“ function. The process for the close input is the same as the „Close“ combination. When both inputs are activated at the same time, the combined units stop.

Positioning Switch movement commands
The „Positioning“ function ensures that combined units are moved to the set opening width when a combined input is operated. The opening width can be individually set for each combination.

Timed ventilation Switch movement commands
The „Timed ventilation“ function ensures that combined units are opened to the programmed ventilation opening width (100%) when a combined input is operated. Once the set time is finished, the units are automatically closed. The duration of opening can be individually set for each combination.

Unlock in the turn position Switch movement commands
The „Unlock in the turn position“ function ensures that combined units are opened in the turn position when a combined input is operated. This function is only available for turn/tilt units.

Maximum ventilation Switch movement commands
The „Maximum ventilation“ function ensures that combined units are opened to the maximum opening width when a combined input is operated.

Acknowledge event Switch movement commands
The “Acknowledge event” function ensures that the event “Cancel after max. closing attempts – acknowledgement required” is acknowledged on combined units when a combined input is operated.

Toggle Switch movement commands
The „Toggle“ function allows units to be operated with just one button. If the input is activated while the unit is there, combined units are opened or closed. Moving units are stopped. Whether they are opened or closed depends on the last sent command. The open and close commands are always sent alternately.

Silent mode (Disable commands)
The “Silent mode” function is a command which behaves like a switch. It ensures that combined units are operated in silent mode. If, for example, a switch is connected, “Silent mode” is active until the switch is deactivated.

Relay message positive (Information/message)
The “Relay message positive” function signals events or unit statuses. Here it is checked whether the selected event or unit status is present for all combined units. If this is the case, the assigned relays are switched. The output is executed as a normally open contact (NO) here.

Relay message negative (Information/message)
The “Relay message negative” function signals events or unit statuses. Here it is checked whether the selected event or unit status is present for all combined units. If this is the case, the assigned relays are switched. The output is executed as a normally closed contact (NC) here.

Event message (Information/message)
The “Event message” function is a combination which can be placed on the outputs of device bus subscribers (button interface, Automation Manager). It ensures that an output of a subscriber is switched to active as soon as there is an event in the system. This active output can be used for indicators of these events, for example.

Determined event (information/message)
The „Determined event“ function checks whether at least one linked unit has the set parameter value. (Unit statuses or events can be selected.) If the unit status or event is present, the linked relay is switched.

Relay message one member has (information/message)
The function „Relay message one participant has“ checks whether at least one linked unit has one of the set parameter values. (Several unit states or events can be selected.) If one of the unit states or one of the events is present, the linked relay is switched.
linked relay is switched.

Relay message all members have (information/message)
The function „Relay message all members have“ checks whether all linked units have one of the set parameter values. (Several unit states or events can be selected.) If one of the unit states or one of the events is present at all linked units, the relay is switched.

SHEVS air vent opening (Disable commands)
The “SHEVS air vent opening” function is a disable command. It ensures that combined units are opened to the maximum opening width and remain there.
If the disable function is lifted, the units close independently.

Unit protection (Disable commands)
The “unit protection” function is a disable command. It ensures that linked units are closed and cannot be opened for ventilation. Turn/tilt units can continue to be opened in the turn position.

Release anti-turn lock (Disable commands)
The “Release anti-turn lock” function is a disable command. This ensures that a programmed anti-turn lock is released for linked units.

Ventilation lock (Disable commands)
The “Ventilation lock” function is a disable command. It ensures that combined units cannot be opened for ventilation. Open units do not close independently.

Lock operation (Disable commands)
The “Operation lock” function is a disable command. It ensures that combined units can no longer be operated on-site on the operating unit. Operation via bus commands is still possible.

Permanently unlock in the turn position (Disable commands)
The “Permanently unlock in the turn position” function is a disable command. It ensures that combined units are closed when necessary. As soon as they are closed, they are opened in the turn position and remain there until the disable function is lifted. This disable function is only executed by turn/tilt units.

Window cleaning function (Disable commands)
The “Window cleaning function function” is a disable command. It ensures that combined units are closed when necessary. As soon as they are closed, units without an operating unit are opened in the turn position. Units with an operating unit can be opened in the turn position by pressing a button or, if there is a handle (as long as no anti-turn lock is configured), by moving the handle to the horizontal position. To close the unit, the vent must be opened once and closed. For units without an operating unit, the vent must remain in the closed position for at least 5 seconds until it is locked. This disable function is only executed by turn/tilt units.

Unit protection for crack ventilation (Disable commands)
The “Unit protection for crack ventilation” function is a disable command. It ensures that combined units are closed and then opened to the crack ventilation opening width (max. 8 mm).

Close protection against wind (Disable commands)
The “Close protection against wind” is a disable command. This ensures that combined units are opened to max. crack ventilation opening width (approx. 4 mm) or closed, depending on the wind speed.

Time function (Automatic function)
The “Time function” ensures that units are opened or closed at specific switching times.

Cool-down function with signal relay (Automatic function)
The „cool-down function“ ensures that units are opened and closed at specific switching periods depending on the temperature difference between the inside and outside temperature, thus „regulating“ the interior to a set temperature. In addition, a relay output can be linked to inform alarm systems or other automation managers, for example, that the cool-down function is active.

Extension of the cooling function (Automatic function)
The „Extension for cooling function“ function can be used to use the „Cooling function with signal relay“ of another Automation Manager for units of this Automation Manager. For this purpose, the signal of the signal relay of the other Automation Manager is linked to an input of this Automation Manager. Units can be added as usual, just like a new signal relay. No additional sensors need to be connected, as the evaluation is performed by the other Automation Manager.

Silent mode time (Automatic function)
The “Silent mode time” function ensures that silent mode is activated for units for specific switching periods.

Motion sensor (Automatic function)
The “Motion sensor” function ensures that units are closed after a defined period of time has passed without motion detection.

Air quality (Automatic function)
The “Air quality” function ensures that units are opened and closed for specific switching periods, depending on the measured VOC content of the ambient air.

INFORMATION

Function with unit setting
ASE 60/80 TipTronic units can be controlled with this function. For each unit you can therefore select an individual unit setting which will then be opened. To do this, first select a unit setting and then mark the unit.

Opening of unit settings Switch movement commands
The “Opening of unit settings” function ensures that combined units are opened at the configured unit setting when a combined input is operated. The unit setting can be determined individually for each unit.

Timed ventilation with unit setting Switch movement commands
The “Timed ventilation with unit setting” function ensures that combined units are opened at the configured unit setting when a combined input is operated. Once the hold-open time has elapsed, the units are closed.

Time function with unit setting (Automatic function)
The “Time function with unit setting” function ensures that combined units are opened at the configured unit setting for a defined time. The unit setting can be determined individually for each unit.

Cooling function with unit setting (Automatic function)
The “Cooling function with unit setting” function ensures that units are opened at the configured unit setting and closed for specific switching periods, depending on the difference between the indoor and outdoor temperature. The inside is therefore ‘controlled‘ at a target temperature. The unit setting can be determined individually for each unit.

Air quality with unit setting (Automatic function)
The “Air quality with unit setting” function ensures that units are opened and closed at the configured unit setting for specific switching periods, depending on the measured VOC content of the ambient air.

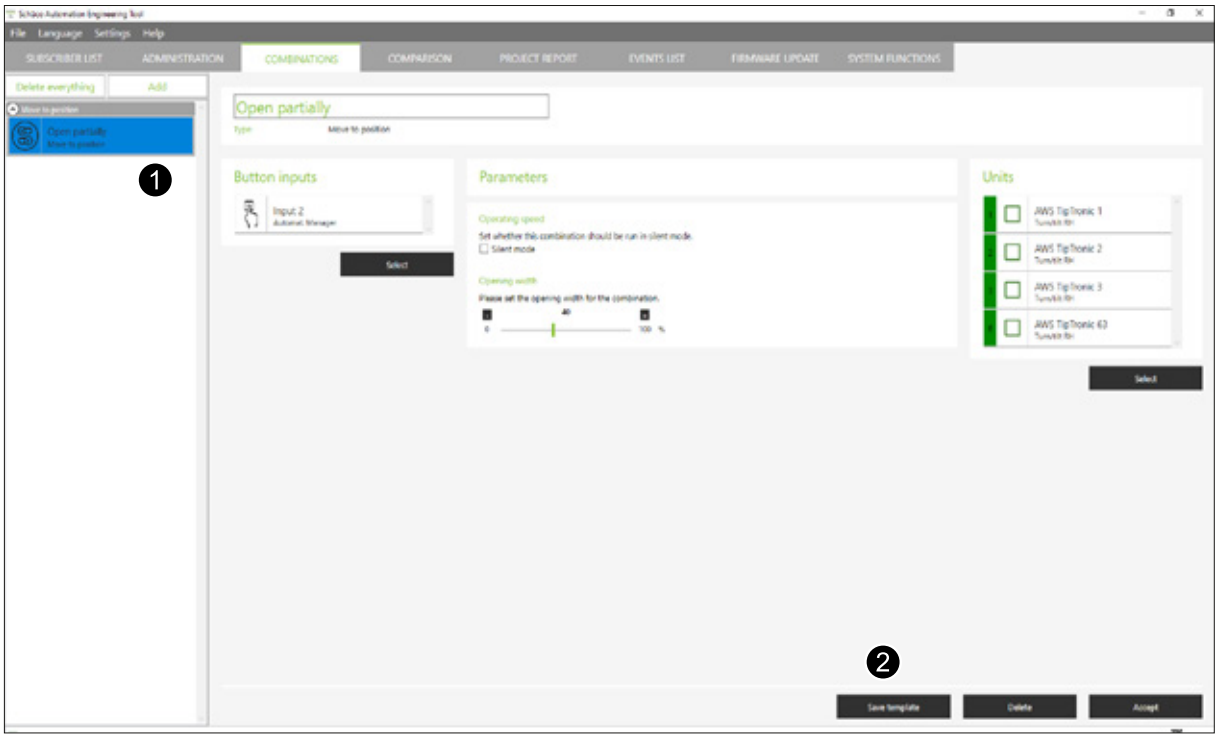
VOC ventilation (Automatic function)
The „VOC ventilation“ function ensures that units are activated with a positioning (100%) at specific switching periods, depending on the measured VOC content of the room air, and close again as soon as the VOC content falls below the defined threshold value.

CO2 ventilation (Automatic function)
The „CO2 ventilation“ function ensures that units are activated with a positioning (100%) at specific switching periods, depending on the measured CO2 content of the room air, and close again as soon as the CO2 content falls below the defined threshold value.

9.3.4 Templates

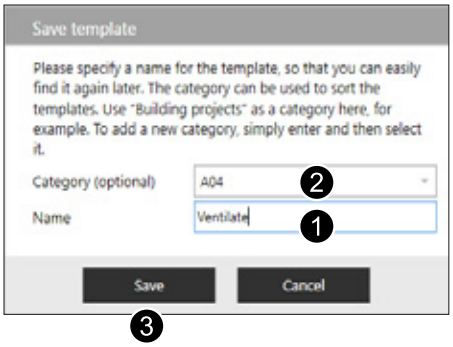
Combinations can be saved as reusable templates. In a template, the function is saved together with the selected inputs, parameters and outputs (units) and automatically pre-entered when the template is selected again. Afterwards, the inputs, parameters and outputs can be adjusted individually before the function is saved as a new combination.

Create template



1. In the function list (1), click on a function on the basis of which you want to create a template.
2. Click on „Save template“ (2).

» The „Save template“ window opens.



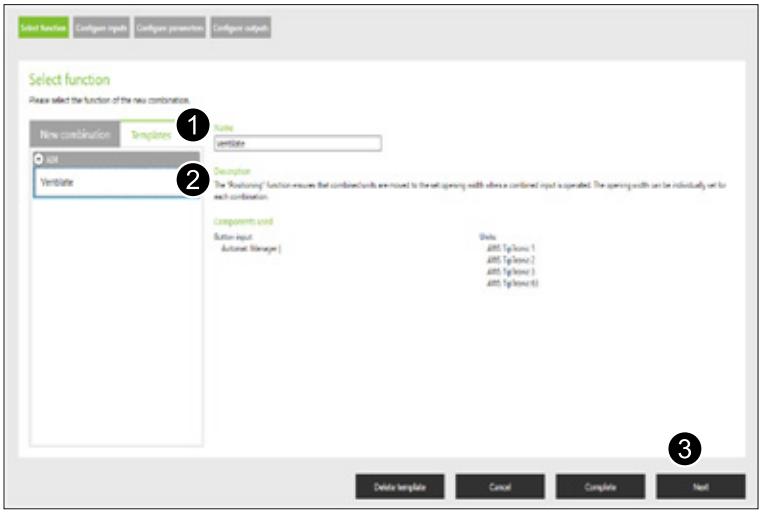
3. Enter a name (1) for the template. In addition, you can also specify a category (2).
4. Click on „Save“ (3).

» The template has been saved and will be available when you create a new shortcut.

Creating a Combination using a template

1. Click on „Add“ in the header of the function list.

» The combinations wizard opens.



2. Click on the „Templates“ tab (1).
3. In the template list (2), click the template you want to use.

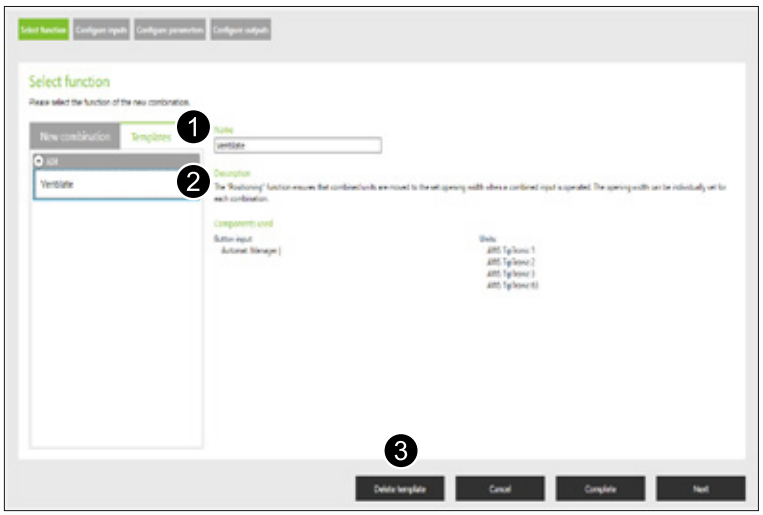
» Details of the template are displayed in the right part of the window.

4. Click on „Next“ (3).

» Follow the instructions of the shortcut wizard to customize the template according to your wishes and save it as a new shortcut.

Delete template

1. Click on „Add“ in the header of the function list.
» The shortcut wizard opens.



2. Click on the „Templates“ tab (1).
3. In the template list (2), click the template you want to delete.
» In the right part of the window, check the template details to make sure you want to delete this template.

4. Click on „Delete template“ (3).

9.4 Comparison

The comparison shows differences between two systems or between the current system and the saved project file.

9.4.1 System comparison

The loaded system is compared with a project file.

9.4.2 Project comparison

Two project files are compared against one another, independent of the loaded system.

9.5 Project report

Under this menu item you can create the project report.

1. Complete the Commission and Metal fabricator/installer fields.
2. Specify the content.

3. Click “Create project report”.
4. Enter a file name in the dialog box.
5. The project report is created and saved as a PDF

Project report information:

Commission	Client: Name, building project and contact details
Metal fabricator/installer	Contractor: Company name and contact details
Unit list	All unit information and unit settings for the system
List of system components	List of all system components and information on each system component: product name, serial number, hardware and firmware
Events list	The current system events list is created
Building technology information	Brief overview of all connected units: unit number, unit name and unit type

9.6 Events list

Under this menu item you can view the events of all connected units and the system components. The events are displayed with an error code and time stamp, and sorted into chronological order. See section “15 Events” on page 91.

9.7 Firmware update

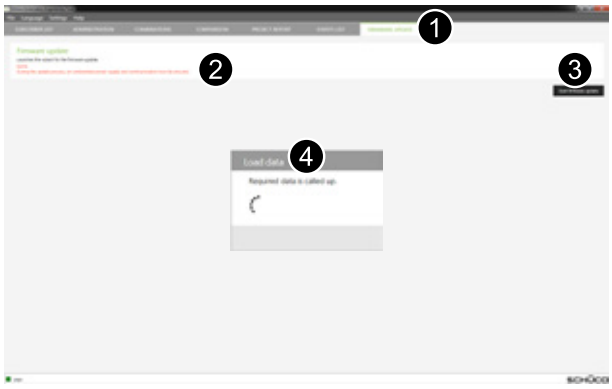
Under this menu item you can perform a firmware update.

INFORMATION

During the update process, an undisturbed power supply and communication must be ensured. The process can take up to 1.5 hours, depending on the number of subscribers that are to be updated.

INFORMATION

Schüco recommends that you keep the software up to date in order to use the full range of functions.



1. In the main menu bar, click “Firmware update” (1).
2. For the following steps, note the warning shown (2).
3. Click “Start firmware update” (3).

» The “Loading data” pop-up window will appear for approx. 2 seconds (4).

» The firmware update wizard then opens.

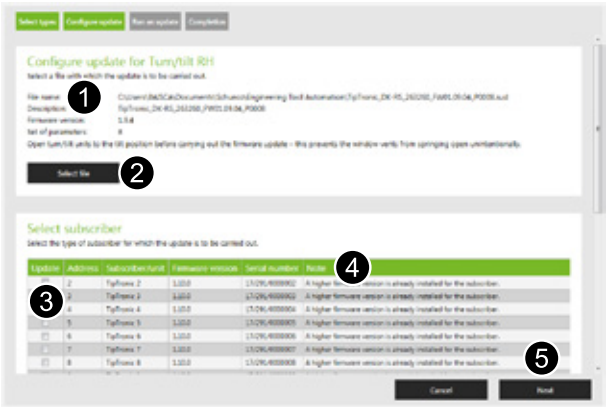
Select types

In this view, the available subscriber types (3) and their quantity (2) are shown.

In this view, you can also select the specific subscriber type(s) for which you would like to run an update.

1. Check the check box(es) (1) to select the subscriber type(s).
2. Click “Next”.

Configure update



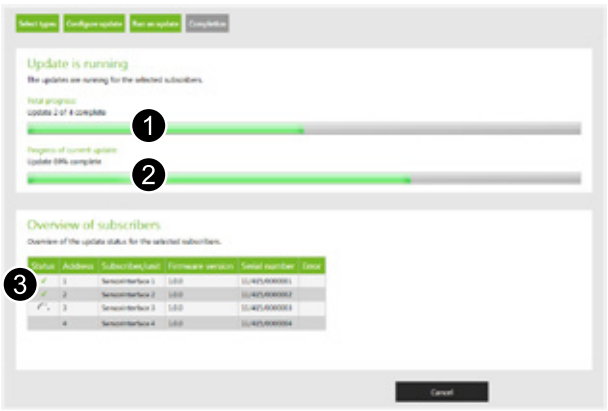
The program will automatically show you the latest version that is installed, next to “File name” (1).
You can select other (e.g. older) versions by clicking “Select file” (2). However, only follow this procedure if you have the right level of expertise.

1. Check the check box (3) next to the subscriber for which you would like to run the update.

» Any actions that are required, e.g. carry out new commissioning, are shown to you under “Note” (4).

2. Click “Next” (5) to run the update.

Run update



This window is shown for the overall duration of the update.
You can view the overall progress of the update (1) and find out about the progress of the latest update (2) for each selected subscriber.

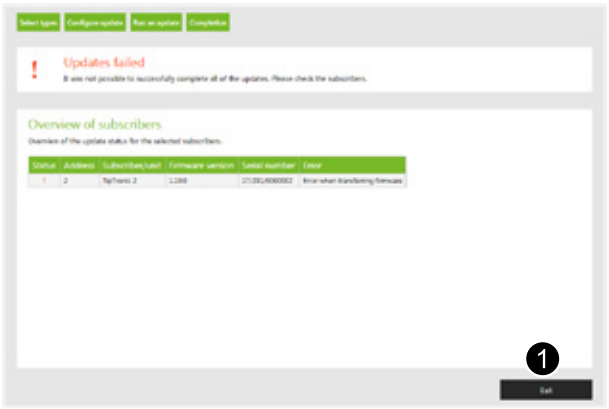
- If the update is run successfully, a green tick is shown in the “Status” column (3).
- If the update has failed, a red exclamation mark is shown in the “Status” column (3). Generally, the software will try to run and complete the update itself again.

Finish

Updates successfully completed

1. Click “Exit” (1).

» The firmware update wizard closes.



Updates failed

1. Contact Support, see section “16 Service and support” on page 95.
2. Click “Exit” (1).

» The firmware update wizard closes.

9.8 System functions

A function for exporting the loaded system is available as well as 2 functions for importing a saved project file into the loaded system.

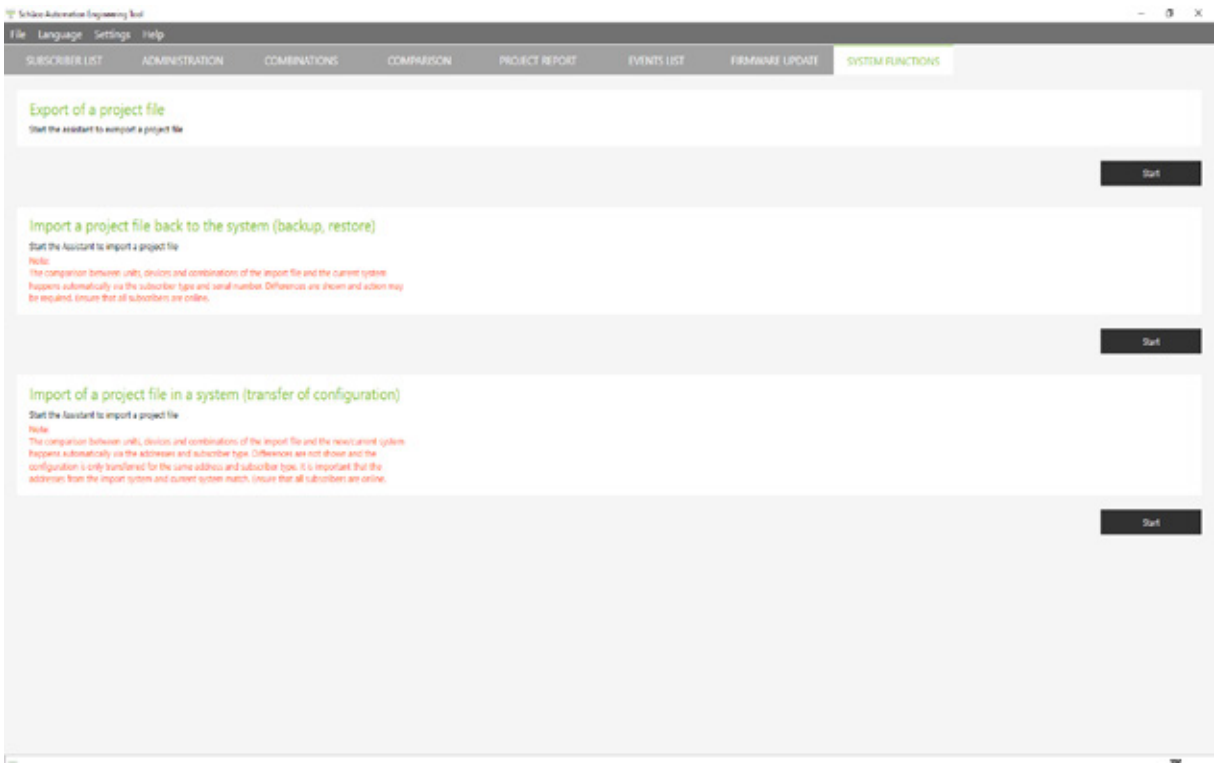
A distinction is made between the following functions for importing:

- Import a project file back to the system (backup, restore).
  This function is primarily used to restore a previous configuration, i.e. if changes have been made to the configuration that are to be undone. The comparison of the two systems is done taking into consideration the serial number of all participants.
- Import of a project file in a system (transfer of configuration)
  This function is primarily used to transfer a saved configuration to the loaded system. The comparison is only done for participants for which both the participant type and the address match. The serial number is not included in the comparison. This function is useful, for example, when configuring identical systems on several floors of a building.

  NOTE

  Prerequisites for using the import function (transferring the configuration):

  - Units of the loaded system have been placed in the same sequence as the units of the import system (addressing).
  - Sensors and pushbuttons of the loaded system are connected to the same inputs as the sensors and pushbuttons of the imported system.



After matching the import system with the currently loaded system, conflicts are listed (if any). Conflicts must be resolved by the user before the configuration data of the import system can be transferred to the currently loaded system.
Conflicts can be different participant types or serial numbers. Differing security-related configuration data, such as enabling security speed, also creates a conflict and requires user input before the configuration data can be transferred.

9.8.1 Importing a project file

Depending on your import intent, select the appropriate of the two import functions and click „Start“ to launch the Import Wizard.
For the import you need a project file (.san), with the configuration of the import system.

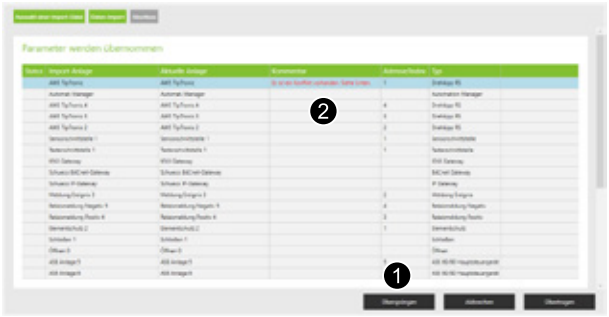
INFORMATION

When using the function „Import a project file back to the system (Backup, Restore)“, the Import Wizard will indicate different serial numbers by creating a conflict.
When using the function „Import of a project file to a system (Transferr of configuration)“, deviating serial numbers are ignored.

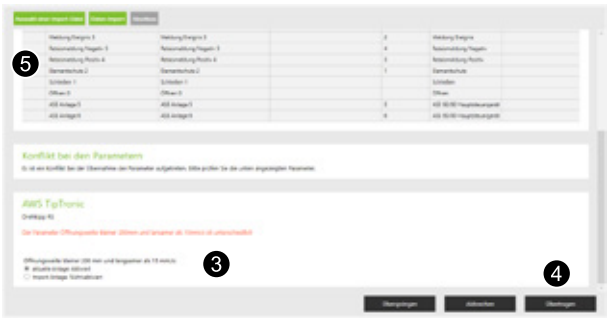
Selecting an import file

1. Click on the „Select import file“ button (1) and select your saved project file.
» In the „Overview“ area, you will then see a list of all system conflicts (if any) (2).
2. Click on the „Next“ button.

Importing data (and resolving conflicts)
A list of all units and devices of the plant is displayed. Conflicts are listed first and include the cause of the conflict in the „Comment“ column or instructions to scroll down to view more information.
The unit currently being handled is highlighted in blue. For each unit or device in turn, a decision must be made as to whether (after eliminating any conflicts that may exist) the configuration should be transferred.



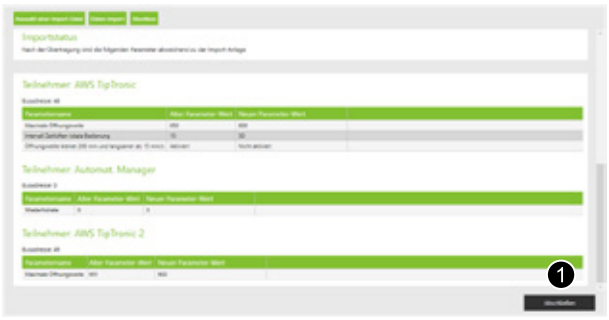
1. If the configuration for the current unit or device is not to be transferred, click the „Skip“ button (1).
Otherwise continue with step 2.
2. Use the „Comment“ column (2) to check whether a conflict was found for the current unit or device.
3. If so, scroll down to view more information about the conflict.



4. Select one of the suggestions (3) for resolving the conflict.
5. Click the „Transfer“ button (4).
» The transferred item or device will be marked with a check mark (✓) in the „Status“ column (5).
6. Repeat steps 1-4 for each listed item or device.

Completion

After deciding for each unit or device whether the configuration data should be transferred, a final overview is displayed. The overview shows a tabular listing of the differing parameters for each imported unit or device, including the parameter value prior to import.



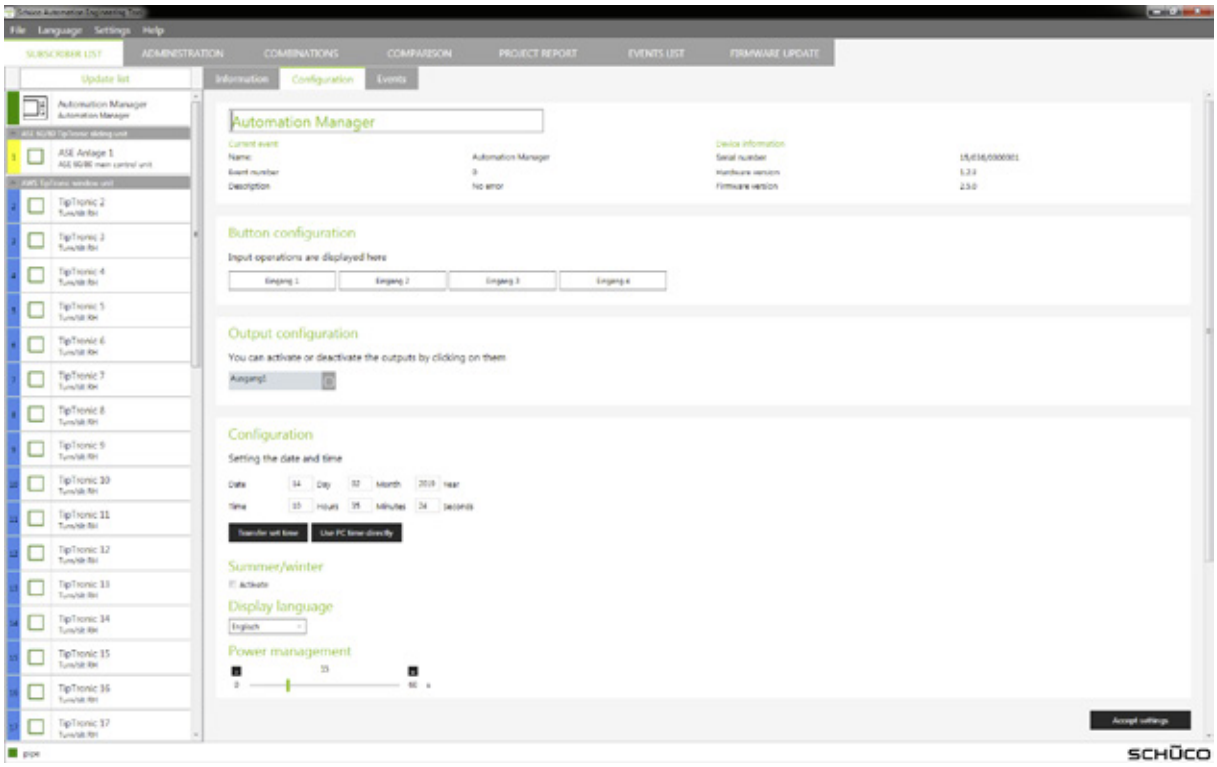
7. Check the transferred configuration data.
8. Click the „Finish“ button (1) to exit the import wizard.

10 Configuration of Automation Manager

When starting up for the first time and during a factory reset, the following default values are set in the Automation Manager:

Time	-	00:00
Date	-	01.01.2015
Menu language	-	German (DE)
Power management idle time	-	10 Seconds
Automation Manager error memory	-	Empty
Output	-	Event message
Inputs 1 - 4	-	Open group, close group, unit protection, “empty”

10.1 Assigning names



1. In the main menu, click “Subscriber list”.
2. Select the Automation Manager from the subscriber list.

» The selected unit is highlighted in blue.

3. Select the “Configuration” tab.

» In the work space, you will see the configuration settings and the status of the inputs for the Automation Manager.

4. You can enter a name for the Automation Manager in the entry field in the header of the work space.
5. Further names can be assigned to the inputs and outputs.

» A reference to the input/output function can hereby be created.

10.2 Setting the date and time

When starting up the software for the first time, you can configure the following settings: time, date and display language. If you have already configured these settings using the Automation Manager, this step is not necessary.

The time is displayed in 24-hour format.The date is written in DD.MM.YYYY format, e.g. 01.01.2015

1. Enter the date and the time in the entry fields.
2. Click on “Transfer set time”.

» The date and time will be saved.

Alternatively, you can copy over the PC time.

1. Click on “Use PC time directly”.

» The PC time and date are saved.

10.3 Summer/winter

Use the “Activate” check box to select automatic time change.

10.4 Setting the display language

Use the “Display language” dropdown list to select the language for the Automation Manager.

10.5 Power management

Use the slider to set the time delay for addressing the individual windows.

NOTE

Damage to property

A setting of 00 seconds deactivates power management.

► Deactivating the power management can lead to an overload of the power packs.

The power management is set to 10 seconds in the factory. To change the power management times, please use the following table in order to prevent overloading the power packs.

Opening width (chain length)	Break in travel	Opening width (chain length)	Break in travel
170 mm	4 - 6 s	300 mm	10 s
200 mm	6 - 8 s	400 - 500 mm	15 s
250 mm	8 - 10 s	600 mm	20 s
		800 mm	30 s

INFORMATION

Please use the “Schüco TipTronic SimplySmart” planning manual for a precise layout of the power packs and power management.

10.6 Accept settings

When you have made all of the changes, click “Apply settings” to transfer the values to the Automation Manager.

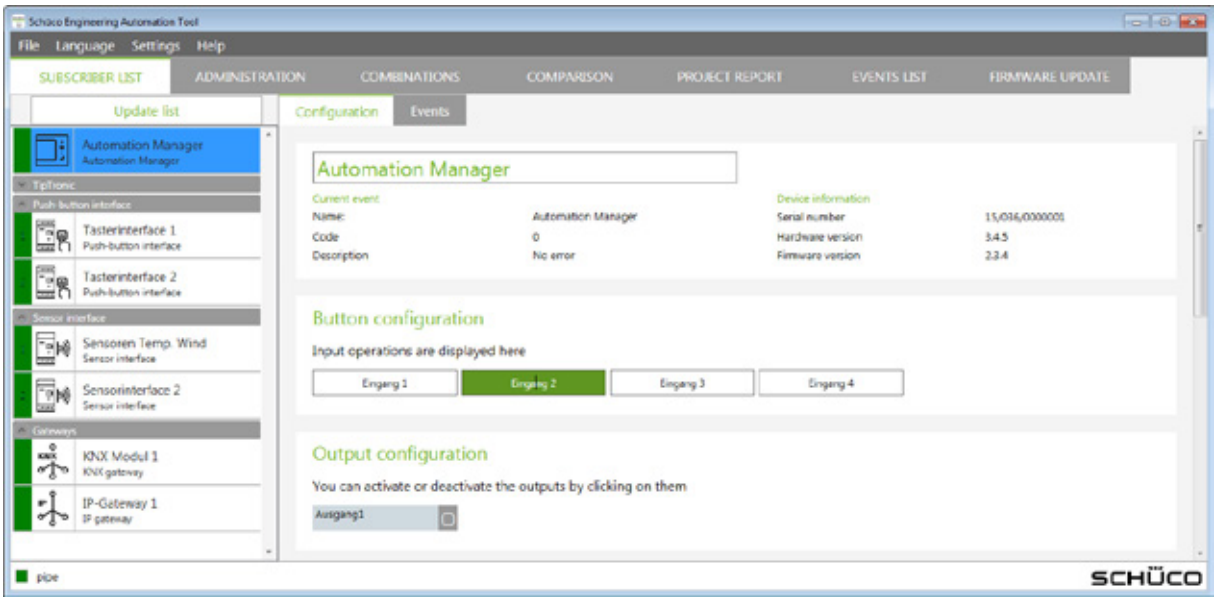
10.7 Perform factory reset

Clicking on “Factory reset” will reset the Automation Manager to the default delivery configuration. All settings (configurations, device list, unit list, combinations) for the Automation Manager will be deleted. The Automation Manager must then be reconfigured.

10.8 Status display and operating options

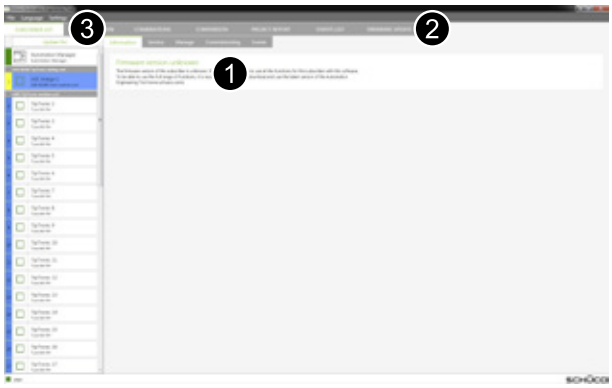
Activating the input marks the corresponding display in green. This allows a check to be made as to which on-site button is connected to which input on the Automation Manager or the button interface.

You can activate or deactivate outputs by checking the check box. This means that the devices to be controlled can be checked during commissioning, without the required event having to occur in the Automation Manager.



11 Configuration of ASE 60/80 TipTronic

11.1 Information



The following messages (1) can be shown in this view:

- Subscriber is in the boot loader
- Subscriber is offline
- Firmware update available
- Unknown firmware detected
- Firmware status unknown.

A firmware update is required for the messages “Subscriber is in the boot loader” and “Unknown firmware detected”.

If the message “Firmware update available” appears, we recommend performing a firmware update.

1. In the main menu bar, click “Firmware update” (2).
2. Perform the actions described under section “9.7 Firmware update” on page 34.

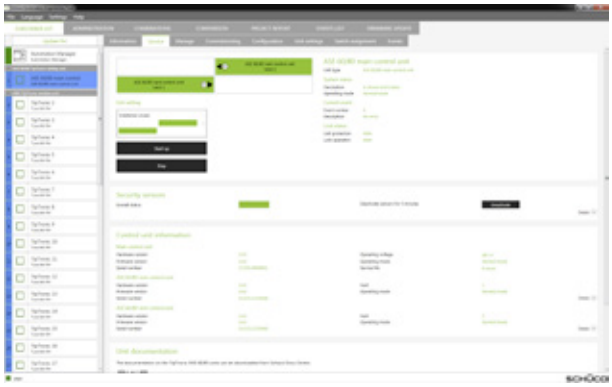
If the message “Firmware version unknown” appears, we recommend that you update the software version of the Automation Engineering Tool.

1. Click on “Settings” (3) in the program menu bar
2. Perform the actions described under section “8.3 Settings” on page 21 to perform a manual update.

11.2 Service

Under this menu item, you can see information and operating options for the unit selected.

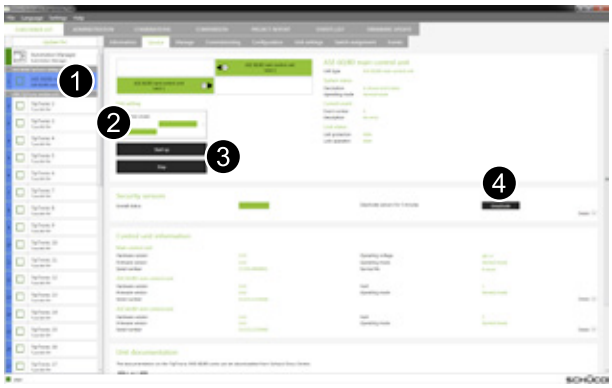
11.2.1 Information in the Service tab



1. Select the desired unit from the subscriber list.
» You will then receive the following information:

- Position of the vents
- System status
- Current event
- Block status
- Security sensors
- Control unit information

11.2.2 Actions in the “Service” tab



1. Click on “Start” or “Stop” (3) in order to start the unit setting selected under (2) for the selected subscribers (1) or to stop a movement.

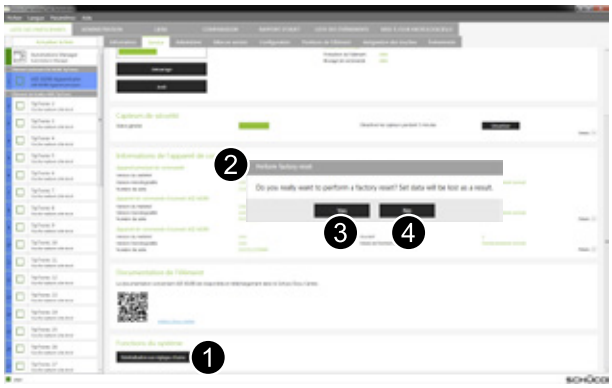
You can deactivate the security sensors for 5 minutes.

1. Click “Deactivate” (4).
» The “Transfer complete” pop-up window appears.
2. Click “OK”.

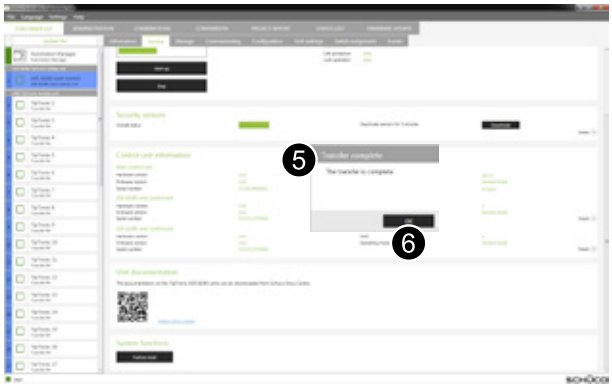
Factory reset
This resets all of the unit settings.

INFORMATION

You need to scroll to the bottom of the display for the “Factory reset” button.



1. Click “Factory reset” (1).
» The “Perform factory reset” pop-up window (2) appears.
2. To cancel the action, click “No” (4).
» The factory reset is cancelled.
3. To perform the action, click “Yes” (3).
» The factory reset is performed.
» The pop-up window “Factory reset is being performed...” is shown for a short time.

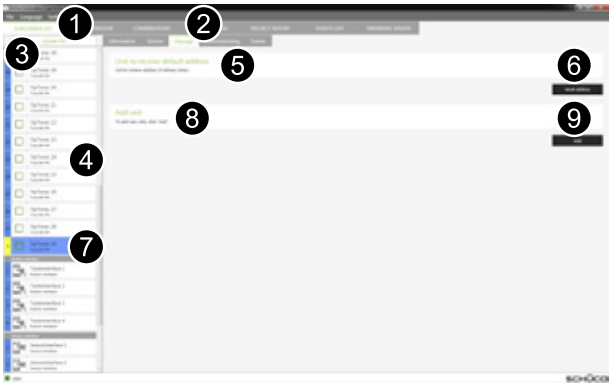


» The “Transfer complete” pop-up window (5) then appears.
4. Click “OK” (6).
» The unit is moved to commissioning mode.

11.3 Manage

Under this menu item, you can

- Reset the address for a unit to the default delivery configuration. This may be necessary if an error has been made when setting the address or if the control unit is to be added to a new group.
- Add a new unit.
- Assign a predetermined address to a unit. This can occur when units are preconfigured in the workshop.
- Replace an existing unit with a new unit or remove an existing unit. This can occur when a defective control unit needs to be replaced or if a unit needs to be omitted entirely.



Reset unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (4) from the subscriber list.
3. Click on the “Manage” tab (2).
4. In the “Unit to receive default address” (5) row, click on “Reset address” (6).

» The selected unit receives the address of the default delivery configuration.

Add Element

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (7) from the subscriber list (is is labelled with an “N” rather than a number).
3. Click on the “Manage” tab (2).
4. In the “Add unit” (8) row, click “Add” (9).

» The selected unit automatically takes the next free address.

5. Then click on “Update list” (3).

Assign unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the unit shown (3) from the subscriber list.
   Ensure that there is only one unit (and not an offline unit) in the subscriber list (1).
3. Click on the “Manage” tab (2).
4. In the “Assign default address” (4) row, click on “-” (5) or “+” (6)
   or
   use the slider (7) to specify the new address.
5. Click on “Copy address” (8).

Replace or remove unit

1. In the main menu bar, click “Subscriber list” (1).
2. Select the offline unit to be replaced (2) from the subscriber list.
3. Click on the “Manage” tab (3).

Remove unit

1. Click the “Remove unit” button to remove a unit from the subscriber list without replacing it.

Replace unit

1. Select the replacement unit (4) from the list shown.
2. Click on “Copy address” (6).

» The combinations from the offline unit are now copied over.

11.4 Commissioning

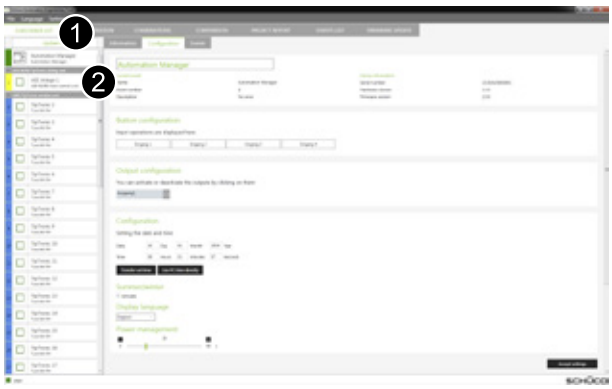
The commissioning wizard supports you in the following steps with commissioning the ASE 60/80 TipTronic:

1. Start commissioning
2. Select system type
3. Program end position and maximum opening width
4. Carry out unit configuration
5. Finish commissioning and create project report

11.4.1 Preparing for commissioning

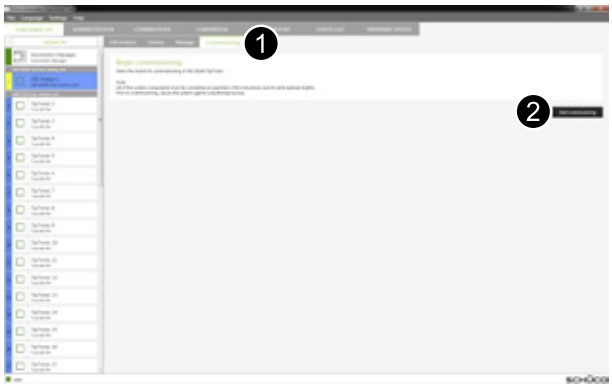
Under this menu item, you can commission the TipTronic ASE 60/80 units. A unit that has already been commissioned can be recommissioned at any time.

Once the program has been launched, you will see the following example display:



1. In the main menu, click “Subscriber list” (1).
2. Select the desired unit from the subscriber list (2).

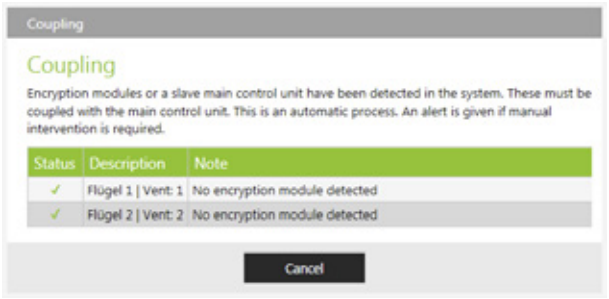
» You will then see the following screen display:



1. Click on the “Commissioning” tab (1).
2. Click on “Start commissioning” (2).

» The commissioning wizard for the ASE 60/80 TipTronic commissioning is launched.

» The next display will be shown for approx. 3 seconds while the input wizard launches.



If lifting drives with encryption modules are installed, they must be coupled with the main control unit. Everything generally happens automatically.

If no automatic coupling is possible, you will be requested by the AET to manually couple the components (e.g. after replacing the main control unit).

Proceed as follows:

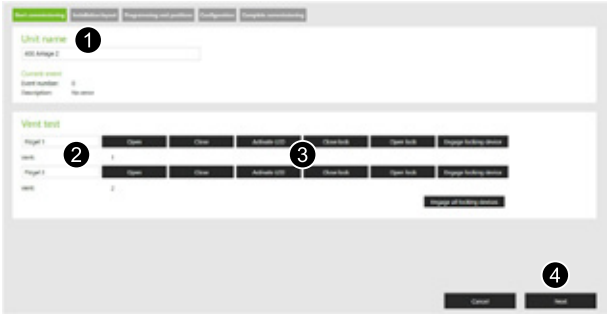
1. All LEDs of the corresponding operating unit flash at high frequency.
» Manual coupling is required.
2. Press the operating unit of the indicated vent. If no operating unit is installed, use the installation switch (Art. No. 263 696) that you connect to terminal X20.
» As confirmation, all LEDs flash at a low frequency. All LEDs then go out.

Please note that the installation switch needs to be removed again after the coupling.

3. Proceed with all other vents that are to be coupled as described above.

If you are requested to couple an installed slave main control unit manually, then press the button under the service cover.

11.4.2 Start commissioning



In this view, you can

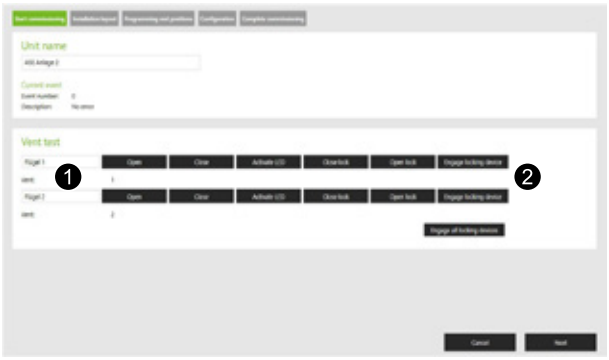
- Perform actions (3) with the individual vents.
- Assign individual names to the unit (1) and/or the vents (2).

Click “Next” (4) to go to the next screen view. Previous name changes are thereby saved.

Perform action

INFORMATION

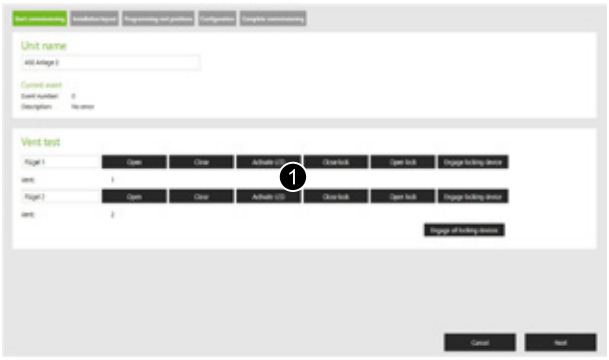
The vents are only moved while you are clicking the corresponding button.



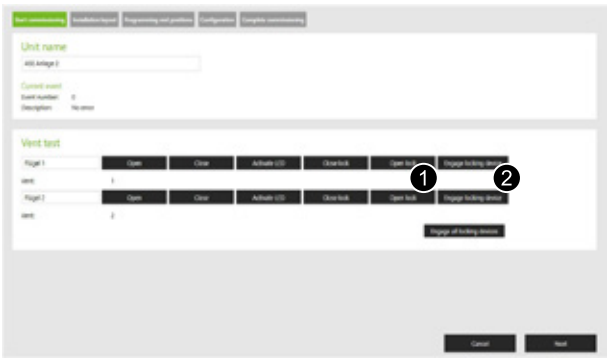
1. Use the cursor to select the “Open” (1) or “Close” (2).
» The selected button is now displayed in green.
2. Activate the function by holding down the left mouse button.
» The selected vent carries out the selected action while you are clicking the button.

INFORMATION

The LEDs on the button of the vent can be used to identify the individual vents.



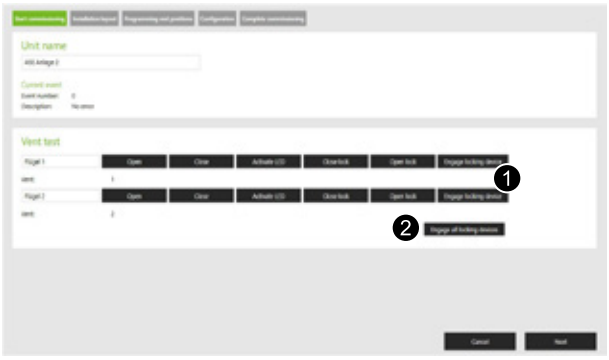
1. Use the cursor to select the “Activate LED” (1) or “Deactivate LED”.
» The selected button is now displayed in green.
2. Activate the function using the left mouse button.
» The LED lights up on the corresponding vent.
» The current function is shown in the button.



1. Use the cursor to select the “Close locking device” (1) or “Open locking device” (2) buttons.
» The selected button is now displayed in green.
2. Activate the function using the left mouse button.
» The corresponding vent is locked or unlocked.

INFORMATION

The locking device can take several minutes to engage.



1. Use the cursor to select the “Engage locking device” (1) or “Engage all locking devices” (2) buttons.
» The selected button is now displayed in green.
2. Activate the function using the left mouse button.
» The corresponding vent (1) or all vents (2) are locked and unlocked five times in succession in order to remedy any initial stiffness of the locking devices.

Assign names
Assigning clear, comprehensible names to systems and vents simplifies subsequent creation and management of combinations.

INFORMATION

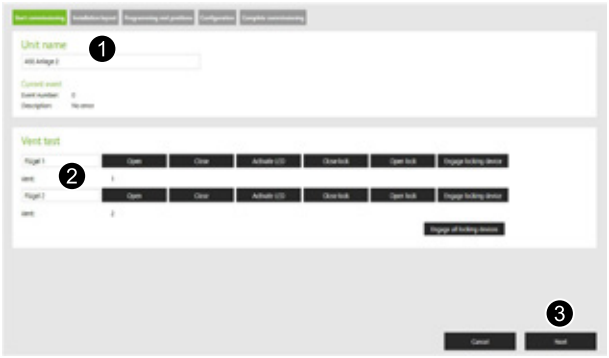
When assigning names, ensure that they are clear and can be understood by other users.

Proceed as follows when naming the vents:

1. The viewing direction is from inside to outside.
2. The numbering is from left to right.

The length of the name is limited to 20 characters.

The name can be changed if commissioning is carried out again or under the “Configuration” tab.



1. Use the cursor to go to the corresponding name field – unit name (1) or vent name (2).
2. Delete or overwrite the existing name.
3. Click “Next” (3).

» The new name is saved.

» The screen display switches to “Installation layout”.

11.4.3 Installation layout

To ensure correct commissioning, the dependencies between the vents must be known. To this end, the installed type must be specified.

1. Select the appropriate installation layout by clicking in the drop-down list (1) under “Vent positioning”.

» A schematic diagram (2) of your installation appears.

2. Check that the installation shown in the schematic diagram matches the actual installation layout (direction of opening, position of motors etc.).

» Possible, foreseeable adjustments (3) are shown to you here, e.g. replace secondary and access leaf.

INFORMATION

If you are not shown any adjustable installation layout or any applicable installation layout in the drop-down list (1), then switch to “Expert mode” (4), see section “11.4.7 Expert mode” on page 53.

3. Click on the corresponding button to make the adjustment.
4. Click “Next” (5).

» The screen display switches to “Program end positions”.

11.4.4 Programming end positions

INFORMATION

The dimensions and descriptions shown in the following graphics are only examples.
Regardless of the installation type, the end positions for all vents are programmed according to the same procedure. First the “Closed end position” is programmed, then firstly the “Open end position” and then the “Closed end position” are started. The dependencies between the vents are taken into account here.

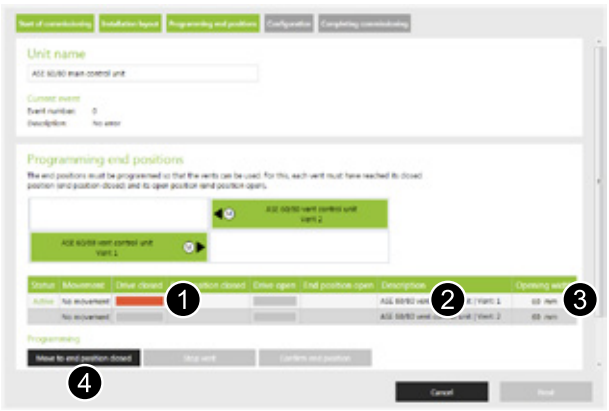
INFORMATION

You can stop the vent movement at any time by clicking on the “Stop vent” button.
The movement is continued when you click again on the “Move to open end position” or “Move to closed end position” button that is shown.

“Closed” end position

INFORMATION

Ensure that the units are not completely closed before this action starts.

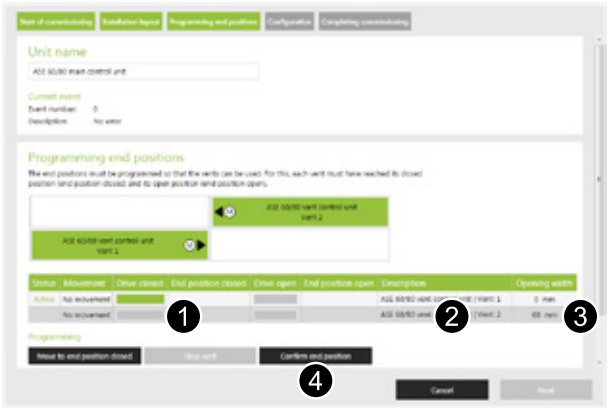


1. Click on “Move to closed end position” (4).
» Vent 1 (2) is active and the opening width (3) is reduced to 0 mm.

» When the “Closed end position” is reached, the “Drive closed” display field (1) changes the colour to green.

INFORMATION

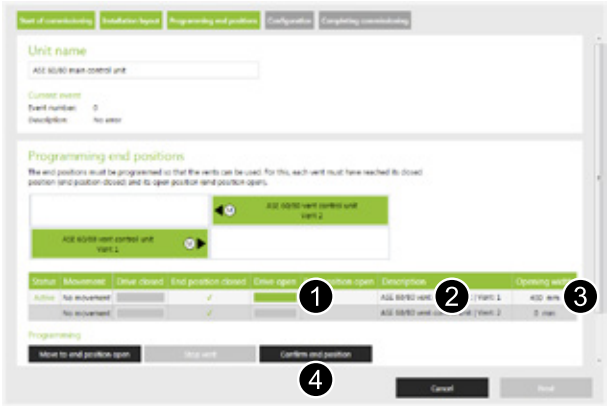
Before you confirm an end position (“Open” or “Closed”), check that the vent has actually reached its end position.



2. Then click “Confirm end position” (4).
» Vent 2 (2) is active and the opening width (3) is reduced to 0 mm.

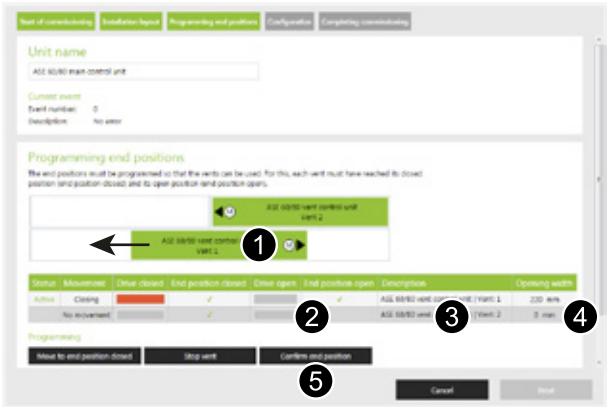
» When the “Closed end position” is reached, the “Drive closed” display field (1) changes the colour to green.

“Open” end position



3. Then click “Confirm end position” (4).
» Vent 1 (2) is active and starts to open. The opening width (3) is increased accordingly.

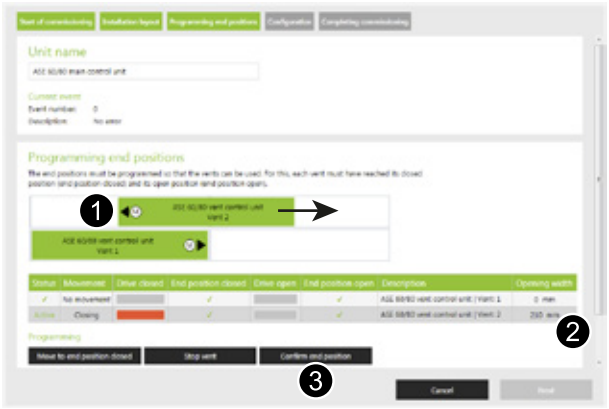
» When the “Open end position” is reached, the “Drive open” display field (1) changes the colour to green.



4. Then click “Confirm end position” (5).
» Vent 1 is closed, whereby the graphical element (1) of vent 1 moves completely to the left.

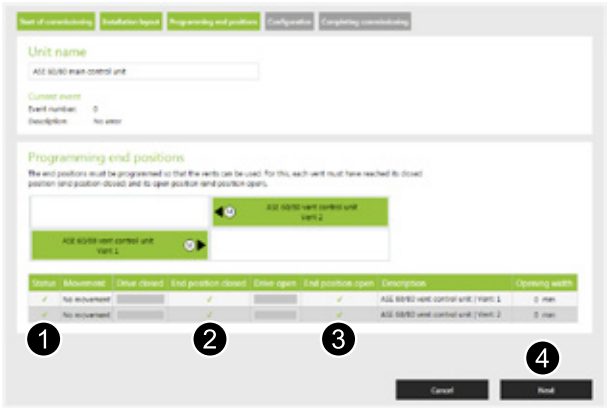
» Vent 2 (3) is active and starts to open. The opening width (4) is increased accordingly.

» When the “Open end position” is reached, the “Drive open” display field (2) changes the colour to green.



5. Then click “Confirm end position” (3).
» Vent 2 is closed, whereby the graphical element (1) of vent 2 moves completely to the right.

» You will then see the following display:

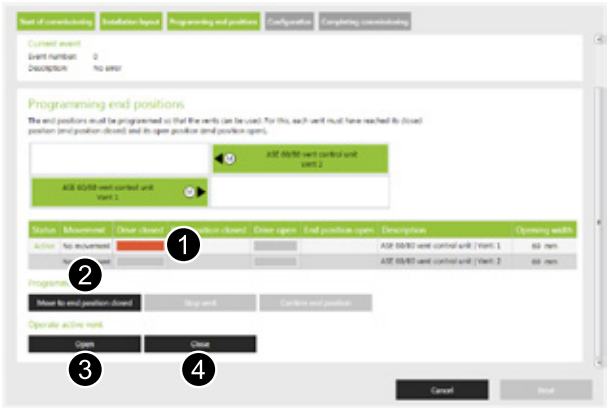


The end positions are correctly calculated when a green tick is shown in the “Status” (1), “Closed end position” (2) and “Open end position” (3) columns.

6. Click “Next” (4).

» The screen display switches to “Configuration”.

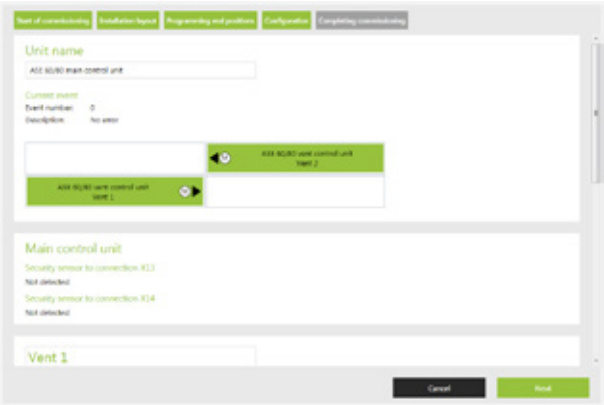
Disruptions during programming



In the event of a disruption (e.g. blocking of the vent) during programming, proceed as follows:

1. Eliminate the disruption. To do this, allow the vents to move in dead-man mode by clicking “Open” (3) or “Close” (4).
2. Then restart the programming by clicking “Program open end position” (2).

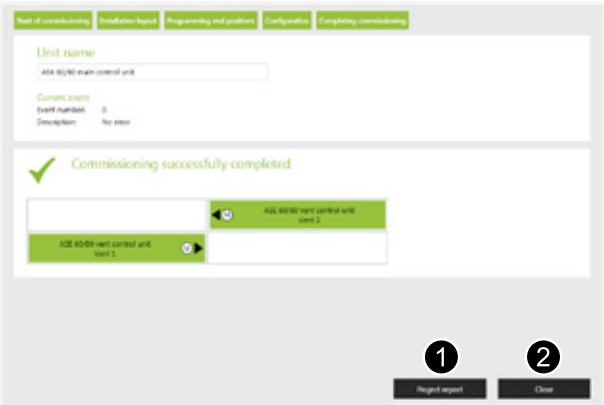
11.4.5 Configuration



Configurations can also be made during commissioning as well as during normal operation.

For detailed descriptions of this, see section “11.5 Configuration” on page 56.

11.4.6 Completing commissioning



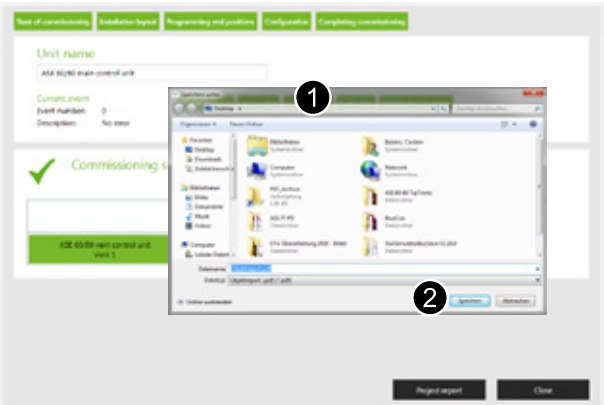
1. Click “Close” (2) to exit the installation wizard.
» The “Begin commissioning” display is then shown again.

or

1. Click “Project report” (1).
» You will then see the following screen display:

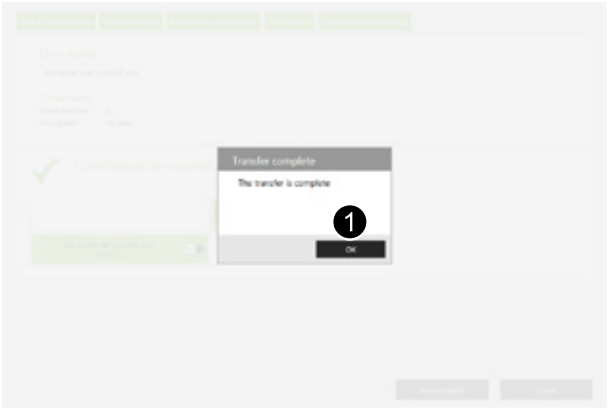
Project report

The project report (PDF format) is used to document the latest status of the installation.



If you click on “Project report”, a pop-up window appears (1).

1. In the pop-up window (1), select the directory to which you want to save the project report.
2. In the pop-up window, click “Save” (2).
» You will then see the following screen display:



The “Transfer complete” pop-up window is then shown.

1. Click “OK” (1).

» The project report is saved in the selected directory.

» The project report is shown as a PDF document in a separate window.

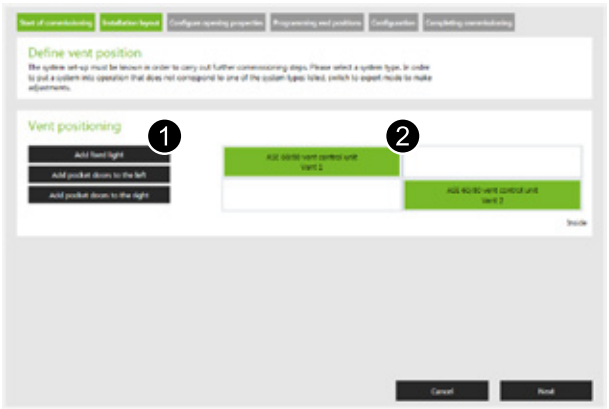
» You will then be shown the “Finish commissioning” screen display.

11.4.7 Expert mode

INFORMATION

In this mode, no check is made to ensure that the composition of the installation is technically and logically correct. Proceed with care with regard to entering information, in order to avoid errors down the line in commissioning as well as damage to the installation.

Once you have switched to “Expert mode”, you will see the following input wizard (example):

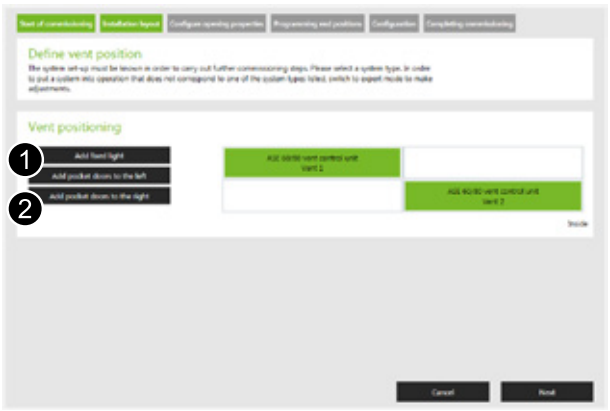


Under “Vent positioning” (1), the following possible options are shown:

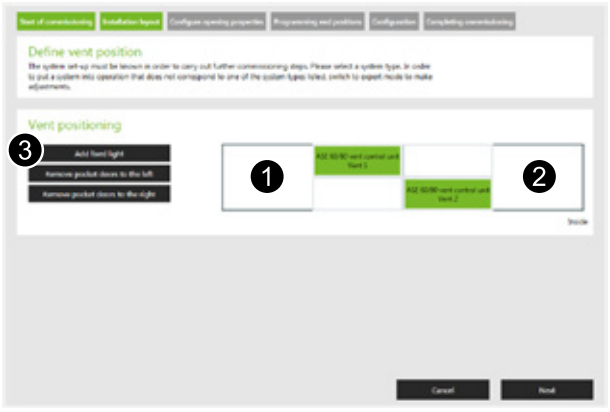
- Add fixed light
- Add/remove left-hand pocket door
- Add/remove right-hand pocket door

The selected option is shown in green.

The latest installation layout is shown in the schematic diagram (2).

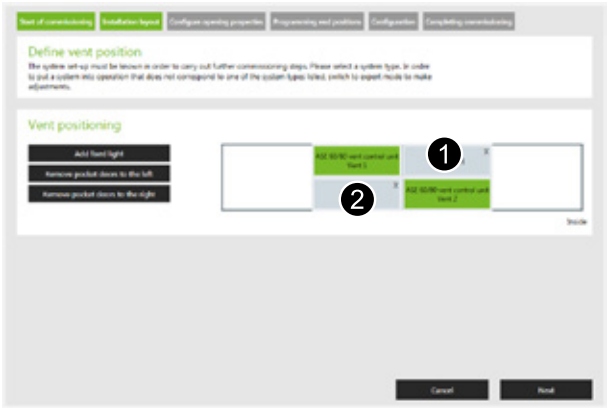


1. Click “Add left-hand pocket door” (1) and “Add right-hand pocket door” (2).
» You will then see the following screen display:



The pocket doors (1) and (2) are inserted in the schematic diagram.

2. Click “Add fixed light” (3).
» You will then see the following screen display:

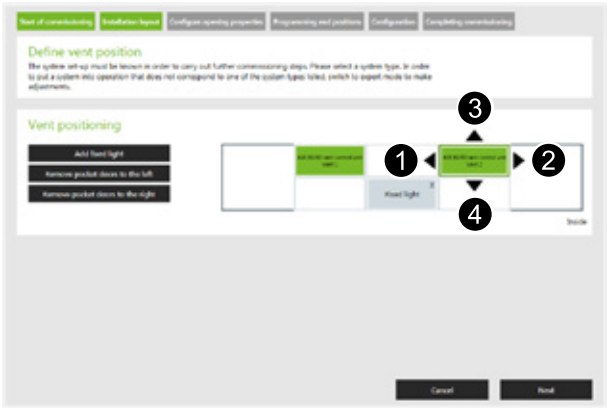


The possible positions of fixed lights (1) and (2) are shown with a grey background.

3. Click on a potential position (1) and/or (2) to specify this as a fixed light.
» The unit receives the description of “Fixed light”.

You can specify more fixed lights by means of the same procedure.

You can delete fixed lights by clicking on the “X” in the fixed light.



The pocket door cannot be moved in the schematic diagram.
You can move vents and fixed lights until they are shown in the actual installation layout.

4. Click on the unit that you want to move.
» The unit is marked with a green frame.
» Arrows appear around the unit. They indicate the direction in which the unit can be moved.
5. Click on the arrow pointing in the direction in which you would like to move the vent.
» Click on the right (2) or left (1) arrow to move the selected unit.
» Click on the “Down” (4) arrow or “Up” (3) arrow to add a third track to the installation where necessary.
6. Proceed in the same way with the other units until the current state is displayed.
» You will then see the following screen display (example):

7. Click “Next” (1) when the schematic diagram matches the current status of the installation layout.
» You will then see the following screen display (example):

The schematic diagram now shows you the opening directions and the positions of the motors (2).

8. Check whether these details match the current status of the installation.
» Possible, foreseeable adjustments (1) are shown to you here, e.g. change direction of opening and/or replace secondary and access leaf.
9. Click on the vent to which you would like to make changes.

If an adjustment is now possible, the corresponding button is then shown in black. However, if the button is shown in grey, the indicated adjustment is not possible.

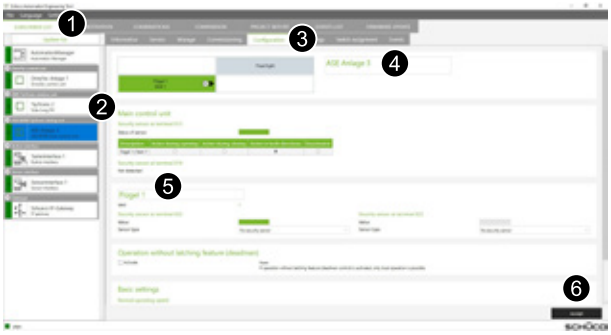
10. Click on the corresponding button to make the adjustment (1).
11. Click “Next” (3).
» The input wizard for expert mode is ended.
» The screen display switches to “Program end positions”.

11.5 Configuration

Under this menu item, you can

- Change the names of the installation and the vents
- Make security settings
- Make basic settings for the installation

Change description

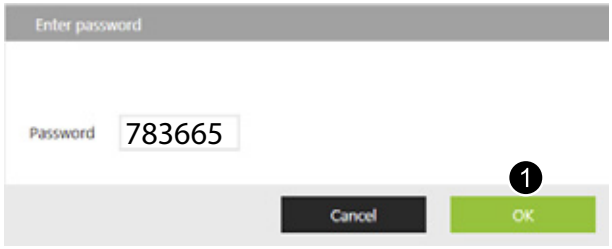


1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (2) from the subscriber list.
3. Click on the “Configuration” tab (3).
» You can now change the name of the installation and/or the vent.
4. Click on the corresponding name field “Installation” (4) or “Vent” (5) and make the changes.
5. Click the “Copy” (6) button to copy the changes.

Security settings

INFORMATION

If your change results in a reduced level of security in the security settings, then a password request pop-up window will appear.

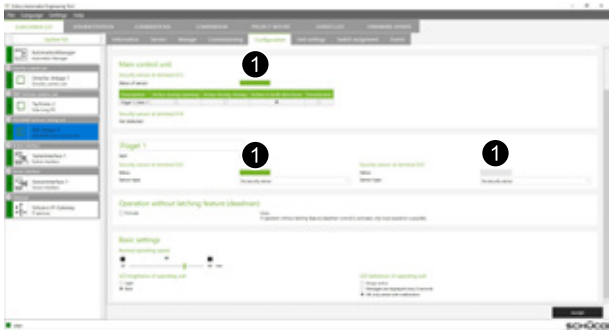


The password is: 783665.

The password cannot be changed.

1. Confirm your entry by clicking “OK”.

INFORMATION



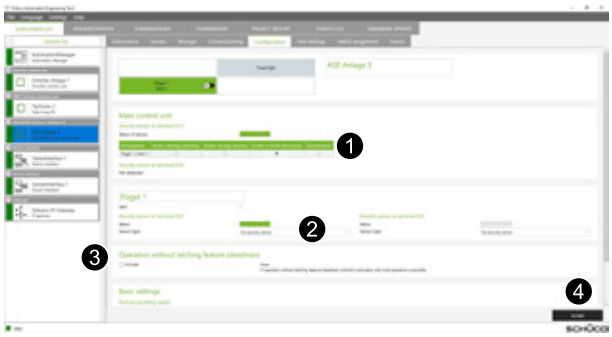
Coloured fields (1) are used to show the status of the sensors.

Meaning of the colours:

Light grey	– no security sensor available
Yellow	– security sensor triggered
Red	– security sensor error
Green	– Security sensor not activated
Dark grey	– security sensor temporarily deactivated

INFORMATION

If “operation without latching feature (dead man)” has been activated in the Automation Engineering Tool, the system can then only be moved via the operating unit and the wall operating switch. BUS operation is not permissible when the “dead man” is active.



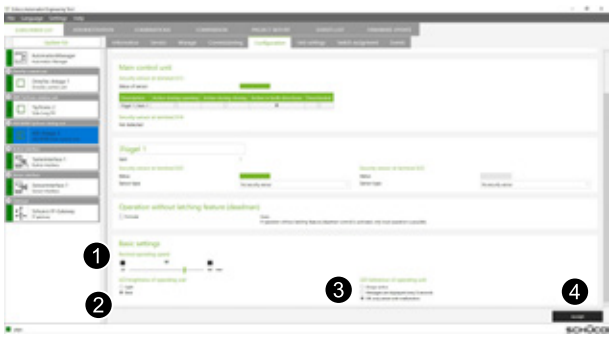
The list of options (1) for the security sensor at connection X13 offers you the following security settings:

- Active when open
- Active when closed
- Active in both directions
- Deactivated

1. Click the corresponding option to activate the corresponding setting.

2. Set the security sensors on the vents by selecting from the drop-down list shown (2).
3. Activate “operation without latching feature (deadman)” (3) by clicking on the check box.
4. Click “Copy” (4) to save the settings.

Basic settings



1. Set the normal operating speed (1) using the slider.

2. Set the
   - LED brightness (2)
   - Installation type (3)
   - LED behaviour (4)

   by checking the corresponding check box.

3. Click “Copy” (5) to save the settings.

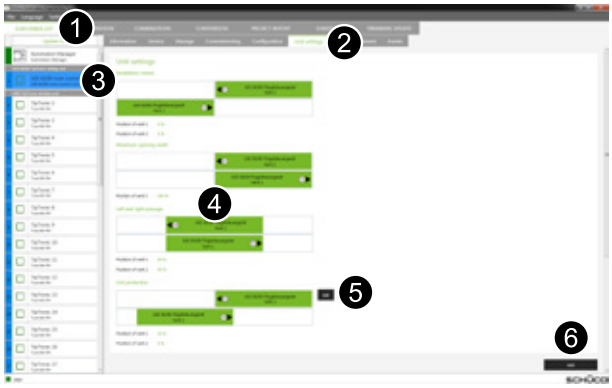
11.6 Unit settings

Under this menu item you can see the available unit setting(s), depending on the installation type.

Furthermore, you can define simplified individual special cases for opening and closing the vents without having to make the settings irrelevant for this.

INFORMATION

Changes to the unit settings are adopted wherever these unit settings are used.
After making a change, check whether all the desired information still works as required.



1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (3) from the subscriber list.
3. Click on the “Unit settings” tab (2).

» The existing unit settings (4) for the installation are shown.

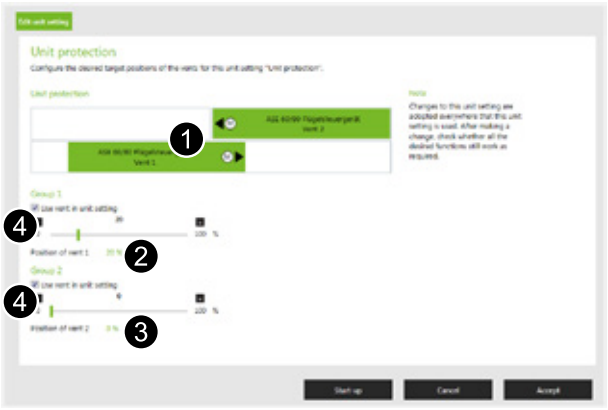
» Click “Edit” (5) or “Add” (6) to make the corresponding changes.

INFORMATION

A logic request is made as part of the settings. Only settings that are technically feasible for movement of the vent can be set for the vent.

The opening width is specified as a percentage of the maximum opening width.

11.6.1 Editing unit settings



Once you have clicked on “Edit”, the input wizard appears.

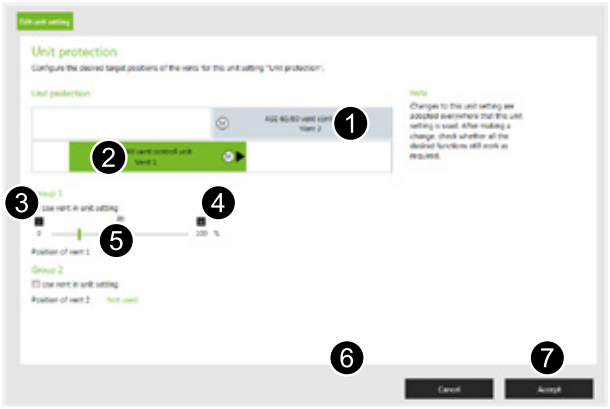
The schematic diagram (1) shows you the current settings.
The assigned opening widths (2) and (3) of the vent(s) are show as a percentage.

1. Check the check box (4) of the vent with the opening width you would like to edit.

INFORMATION

By checking or unchecking the check box (4), you determine which vent is activated and which isn‘t.

- Checked check box – vent is activated and shown in green.
- Unchecked check box – vent is not activated and shown in grey.



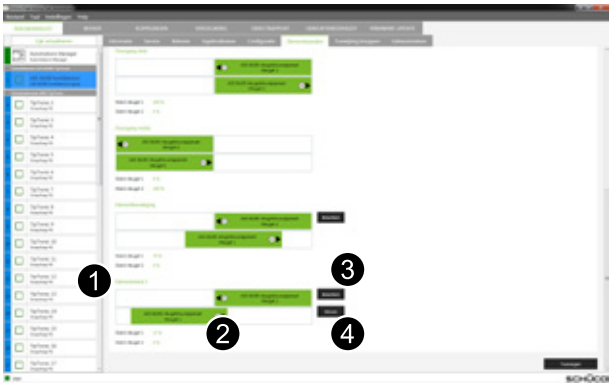
1. Check the check box of the vent with the opening width you would like to edit.
2. Click on the “-” (3) or “+” (4) buttons or use the slider (5) to specify the new target position.
3. Click on the “Run” button (6) to check the settings for the installation.
4. Make any changes where necessary.
5. Click the “Copy” (7) button to copy the changes.

» The input wizard is closed.

» You will once again see the “Unit settings” screen with the new settings.

11.6.2 Adding unit settings

If you click on “Add”, the same entry screen appears as that described under section ”11.6.1 Editing unit settings” on page 57.
Perform the same steps as described in the “Editing unit settings” section.

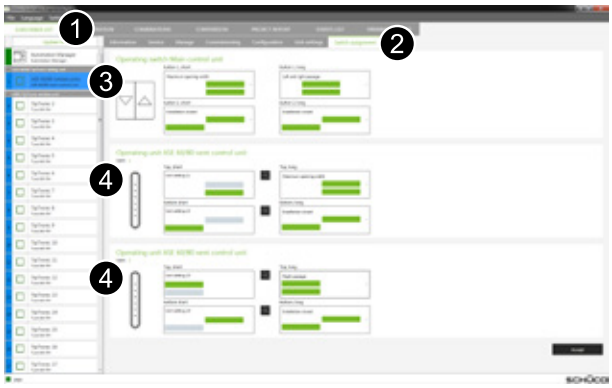


After closing the entry window, the “Unit settings” screen will show the following:

- Name (1) of the new unit (automated).
- Graphical display (2) with the vent position(s) given as a percentage.
- “Edit” button (3).
- “Delete” button (4).

11.7 Switch assignment

Under this menu item, you can see the available operating units and switches, depending on the installation type and the factory settings.



1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (3) from the subscriber list.
3. Click on the “Switch assignment” tab (2).

» You will see the operating switches (3) connected to the main control unit.

» You will see the operating units (4) of the individual vents.

» An indication will be given of where and how long you need to press a switch (5) in order to trigger the desired actions.

» You will be shown that there is a drop-down list (6) if various options are factory pre-set for a switch or operating unit.

INFORMATION

The selected functions are activated for the switch.

- Press briefly (short command) - < press for 2 seconds
- Long press (long command) - > press for 2 seconds

1. Select the appropriate installation layout from the drop-down list (1).
2. Click the “Copy” (3) button to copy the changes.

If you are not shown any applicable installation layout in the drop-down list (1), then create a new unit setting, see section “11.6 Unit settings” on page 58.

If you wish to change the unit settings for a short command, proceed as follows:

1. Click the button (1) next to the corresponding vent. 

» The entry window “Edit unit setting” (2) appears.

» You can now continue to edit as described in section “11.6.1 Editing unit settings” on page 59.

2. Click the “Copy” (3) button to copy the changes.

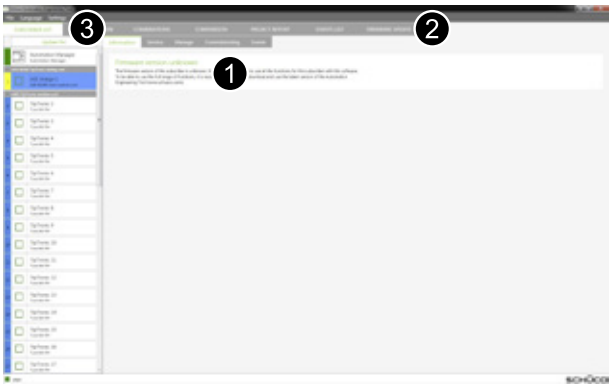
» The amended unit settings for the short command are now shown.

11.8 Events

See section “16.3 Event types” on page 124.

12 Configuration of AS PD 75.HI

12.1 Information



The following messages (1) can be shown in this view:

- Subscriber is in the boot loader
- Subscriber is offline
- Firmware update available
- Unknown firmware detected
- Firmware status unknown.

A firmware update is required for the messages “Subscriber is in the boot loader” and “Unknown firmware detected”.

If the message “Firmware update available” appears, we recommend performing a firmware update.

1. In the main menu bar, click “Firmware update” (2).
2. Perform the actions described under section “9.7 Firmware update” on page 41.

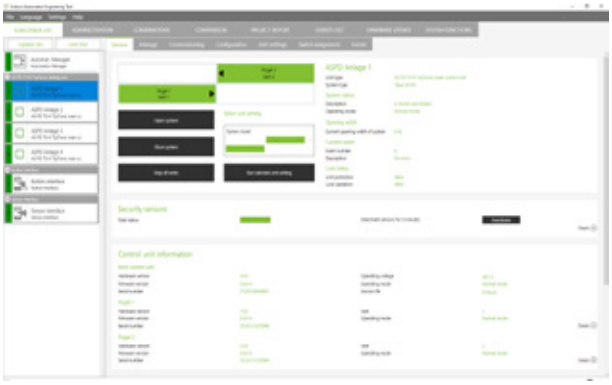
If the message “Firmware version unknown” appears, we recommend that you update the software version of the Automation Engineering Tool.

1. Click on “Settings” (3) in the program menu bar
2. Perform the actions described under section “8.3 Settings” on page 23 to perform a manual update.

12.2 Service

Under this menu item, you can see information and operating options for the unit selected.

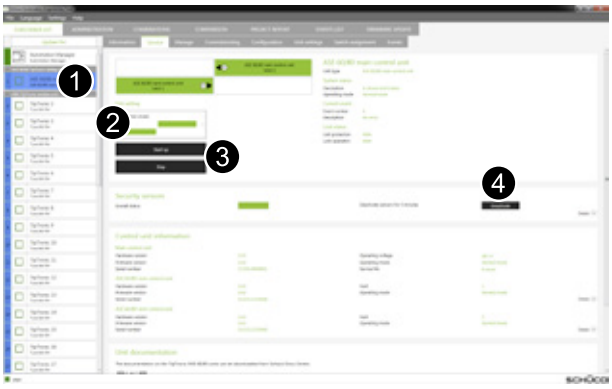
12.2.1 Information in the Service tab



3. Select the desired unit from the subscriber list.
» You will then receive the following information:

- Position of the vents
- System status
- Current event
- Block status
- Security sensors
- Control unit information

12.2.2 Actions in the “Service” tab



4. Click on “Start” or “Stop” (3) in order to start the unit setting selected under (2) for the selected subscribers (1) or to stop a movement.

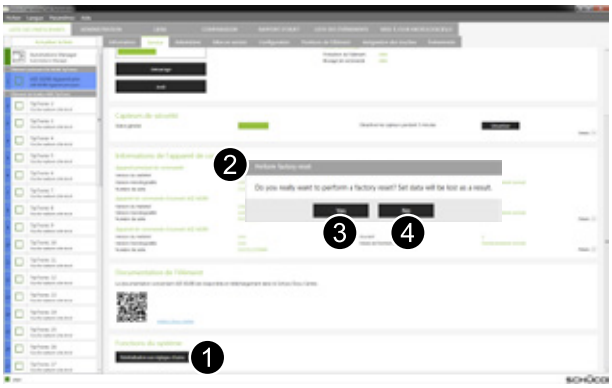
You can deactivate the security sensors for 5 minutes.

1. Click “Deactivate” (4).
» The “Transfer complete” pop-up window appears.
2. Click “OK”.

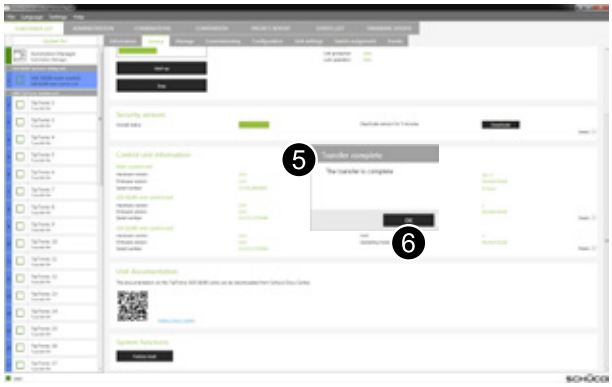
Factory reset
This resets all of the unit settings.

INFORMATION

You need to scroll to the bottom of the display for the “Factory reset” button.



1. Click “Factory reset” (1).
» The “Perform factory reset” pop-up window (2) appears.
2. To cancel the action, click “No” (4).
» The factory reset is cancelled.
3. To perform the action, click “Yes” (3).
» The factory reset is performed.
» The pop-up window “Factory reset is being performed...” is shown for a short time.



» The “Transfer complete” pop-up window (5) then appears.

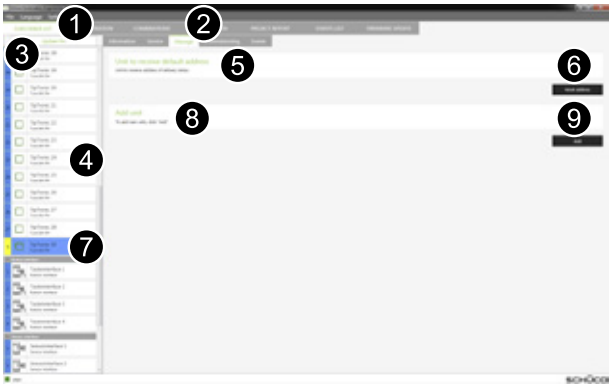
4. Click “OK” (6).

» The unit is moved to commissioning mode.

12.3 Manage

Under this menu item, you can

- Reset the address for a unit to the default delivery configuration. This may be necessary if an error has been made when setting the address or if the control unit is to be added to a new group.
- Add a new unit.
- Assign a predetermined address to a unit. This can occur when units are preconfigured in the workshop.
- Replace an existing unit with a new unit or remove an existing unit. This can occur when a defective control unit needs to be replaced or if a unit needs to be omitted entirely.



Reset unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (4) from the subscriber list.
3. Click on the “Manage” tab (2).
4. In the “Unit to receive default address” (5) row, click on “Reset address” (6).

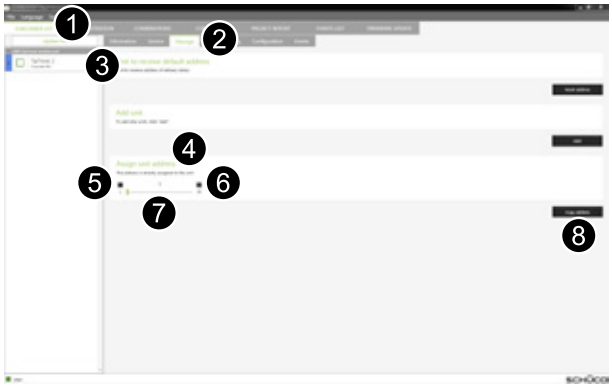
» The selected unit receives the address of the default delivery configuration.

Add Element

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (7) from the subscriber list (is is labelled with an “N” rather than a number).
3. Click on the “Manage” tab (2).
4. In the “Add unit” (8) row, click “Add” (9).

» The selected unit automatically takes the next free address.

5. Then click on “Update list” (3).



Assign unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the unit shown (3) from the subscriber list.
   Ensure that there is only one unit (and not an offline unit) in the subscriber list (1).
3. Click on the “Manage” tab (2).
4. In the “Assign default address” (4) row, click on “-” (5) or “+” (6)
   or
   use the slider (7) to specify the new address.
5. Click on “Copy address” (8).

Replace or remove unit

1. In the main menu bar, click “Subscriber list” (1).
2. Select the offline unit to be replaced (2) from the subscriber list.
3. Click on the “Manage” tab (3).

Remove unit

1. Click the “Remove unit” button to remove a unit from the subscriber list without replacing it.

Replace unit

1. Select the replacement unit (4) from the list shown.
2. Click on “Copy address” (6).

» The combinations from the offline unit are now copied over.

12.4 Commissioning

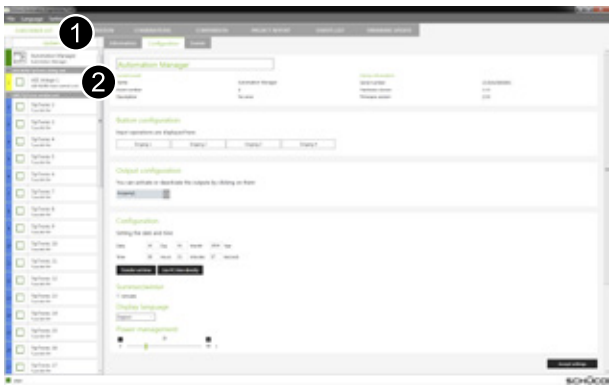
The commissioning wizard supports you in the following steps with commissioning the ASE 60/80 TipTronic:

1. Start commissioning
2. Select system type
3. Program end position and maximum opening width
4. Carry out unit configuration
5. Finish commissioning and create project report

12.4.1 Preparing for commissioning

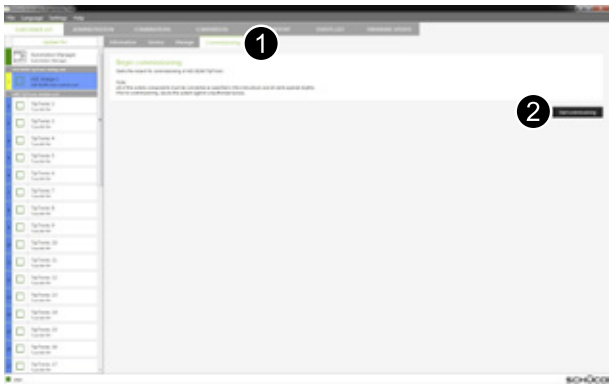
Under this menu item, you can commission the TipTronic ASE 60/80 units. A unit that has already been commissioned can be recommissioned at any time.

Once the program has been launched, you will see the following example display:



6. In the main menu, click “Subscriber list” (1).
7. Select the desired unit from the subscriber list (2).

» You will then see the following screen display:



1. Click on the “Commissioning” tab (1).
2. Click on “Start commissioning” (2).

» The commissioning wizard for the ASE 60/80 TipTronic commissioning is launched.

» The next display will be shown for approx. 3 seconds while the input wizard launches.

12.4.2 Start commissioning

In this view, you can

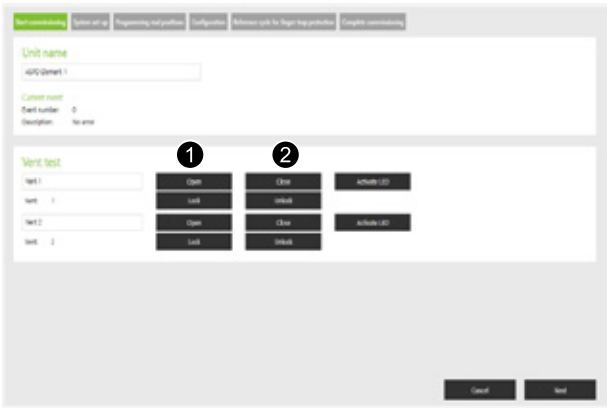
- Perform actions (3) with the individual vents.
- Assign individual names to the unit (1) and/or the vents (2).

Click “Next” (4) to go to the next screen view. Previous name changes are thereby saved.

Perform action

INFORMATION

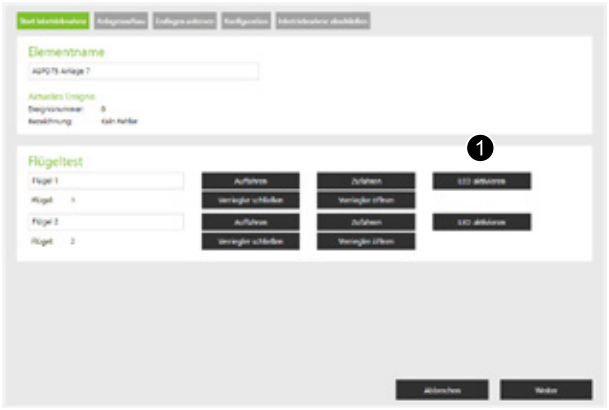
The vents are only moved while you are clicking the corresponding button.



3. Use the cursor to select the “Open” (1) or “Close” (2).
» The selected button is now displayed in green.
4. Activate the function by holding down the left mouse button.
» The selected vent carries out the selected action while you are clicking the button.

INFORMATION

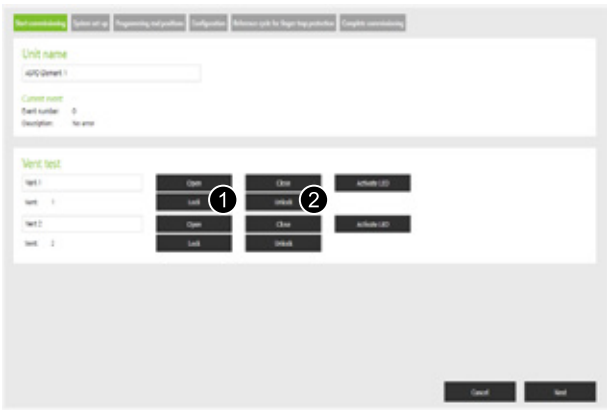
The LEDs on the button of the vent can be used to identify the individual vents.



1. Use the cursor to select the “Activate LED” (1) or “Deactivate LED”.
» The selected button is now displayed in green.

2. Activate the function using the left mouse button.
» The LED lights up on the corresponding vent.

» The current function is shown in the button.



1. Use the cursor to select the “Close locking device” (1) or “Open locking device” (2) buttons.
» The selected button is now displayed in green.
2. Activate the function using the left mouse button.
» The corresponding vent is locked or unlocked.

Assign names
Assigning clear, comprehensible names to systems and vents simplifies subsequent creation and management of combinations.

INFORMATION

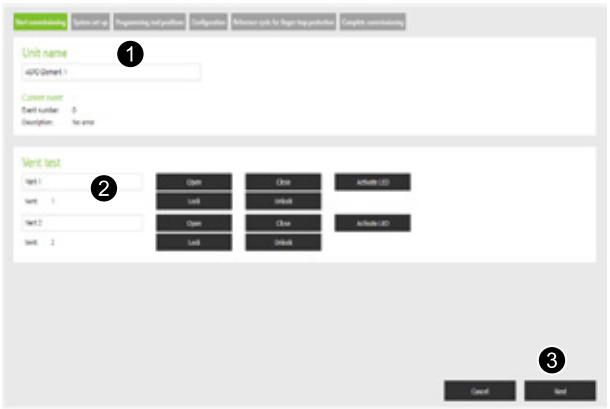
When assigning names, ensure that they are clear and can be understood by other users.

Proceed as follows when naming the vents:

1. The viewing direction is from inside to outside.
2. The numbering is from left to right.

The length of the name is limited to 20 characters.

The name can be changed if commissioning is carried out again or under the “Configuration” tab.

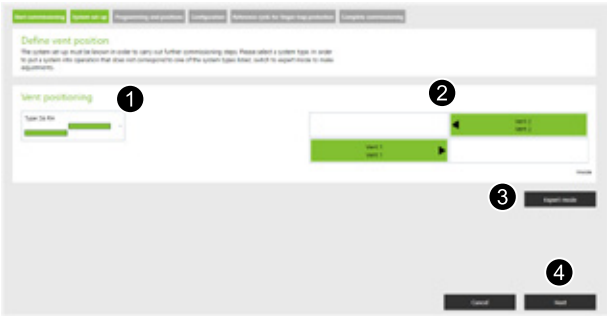


1. Use the cursor to go to the corresponding name field – unit name (1) or vent name (2).
2. Delete or overwrite the existing name.
3. Click “Next” (3).
» The new name is saved.

» The screen display switches to “Installation layout”.

12.4.3 Installation layout

To ensure correct commissioning, the dependencies between the vents must be known. To this end, the installed type must be specified.



4. Select the appropriate installation layout by clicking in the drop-down list (1) under “Vent positioning”.
» A schematic diagram (2) of your installation appears.
5. Check that the installation shown in the schematic diagram matches the actual installation layout (direction of opening, position of motors etc.).
» Possible, foreseeable adjustments (3) are shown to you here, e.g. replace secondary and access leaf.

INFORMATION

If you are not shown any adjustable installation layout or any applicable installation layout in the drop-down list (1), then switch to “Expert mode” (4), see section “11.4.7 Expert mode” on page 86.

6. Click on the corresponding button to make the adjustment.
7. Click “Next” (5).
» The screen display switches to “Program end positions”.

12.4.4 Programming end positions

INFORMATION

The dimensions and descriptions shown in the following graphics are only examples.
Regardless of the installation type, the end positions for all vents are programmed according to the same procedure. First the “Closed end position” is programmed, then firstly the “Open end position” and then the “Closed end position” are started. The dependencies between the vents are taken into account here.

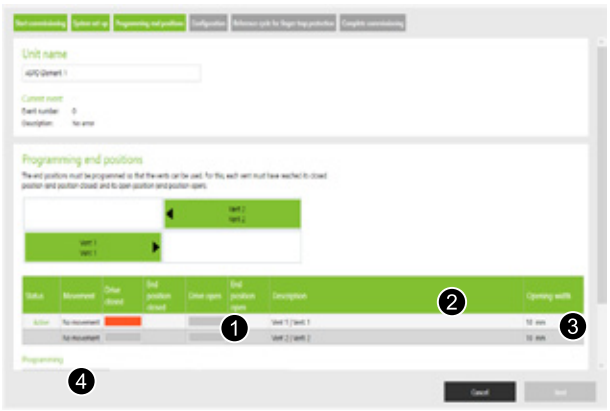
INFORMATION

You can stop the vent movement at any time by clicking on the “Stop vent” button.
The movement is continued when you click again on the “Move to open end position” or “Move to closed end position” button that is shown.

“Closed” end position

INFORMATION

Ensure that the units are not completely closed before this action starts.

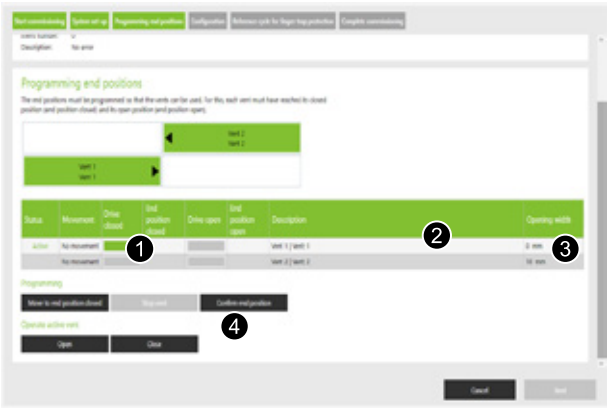


8. Click on “Move to closed end position” (4).
» Vent 1 (2) is active and the opening width (3) is reduced to 0 mm.

» When the “Closed end position” is reached, the “Drive closed” display field (1) changes the colour to green.

INFORMATION

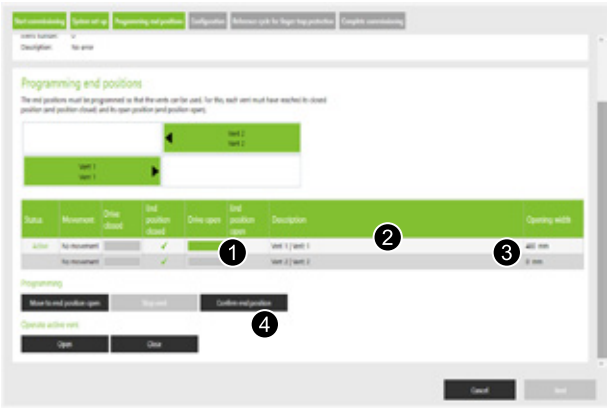
Before you confirm an end position (“Open” or “Closed”), check that the vent has actually reached its end position.



9. Then click “Confirm end position” (4).
» Vent 2 (2) is active and the opening width (3) is reduced to 0 mm.

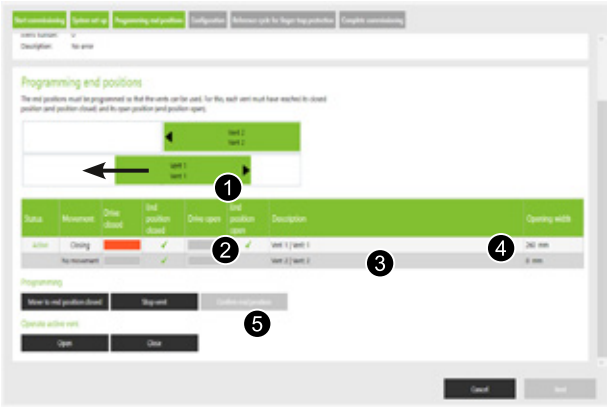
» When the “Closed end position” is reached, the “Drive closed” display field (1) changes the colour to green.

“Open” end position



10. Then click “Confirm end position” (4).
» Vent 1 (2) is active and starts to open. The opening width (3) is increased accordingly.

» When the “Open end position” is reached, the “Drive open” display field (1) changes the colour to green.



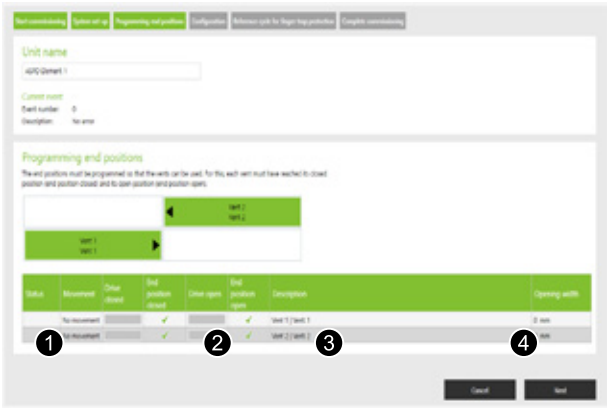
11. Then click “Confirm end position” (5).
» Vent 1 is closed, whereby the graphical element (1) of vent 1 moves completely to the left.

» Vent 2 (3) is active and starts to open. The opening width (4) is increased accordingly.

» When the “Open end position” is reached, the “Drive open” display field (2) changes the colour to green.

12. Then click “Confirm end position” (3).
» Vent 2 is closed, whereby the graphical element (1) of vent 2 moves completely to the right.

» You will then see the following display:

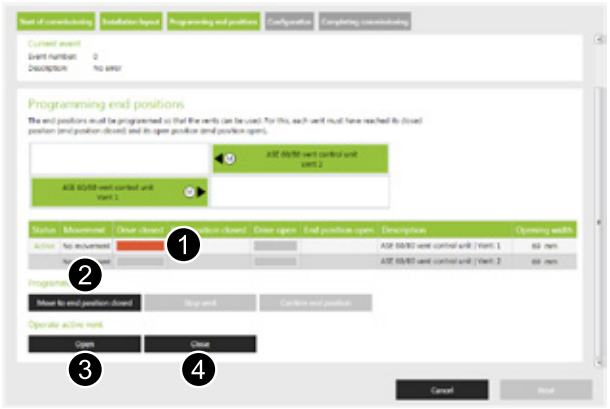


The end positions are correctly calculated when a green tick is shown in the “Status” (1), “Closed end position” (2) and “Open end position” (3) columns.

13. Click “Next” (4).

» The screen display switches to “Configuration”.

Disruptions during programming



In the event of a disruption (e.g. blocking of the vent) during programming, proceed as follows:

1. Eliminate the disruption. To do this, allow the vents to move in dead-man mode by clicking “Open” (3) or “Close” (4).
2. Then restart the programming by clicking “Program open end position” (2).

12.4.5 Configuration

Configurations can also be made during commissioning as well as during normal operation.

For detailed descriptions of this, see section “11.5 Configuration” on page 56.

12.4.6 Completing commissioning

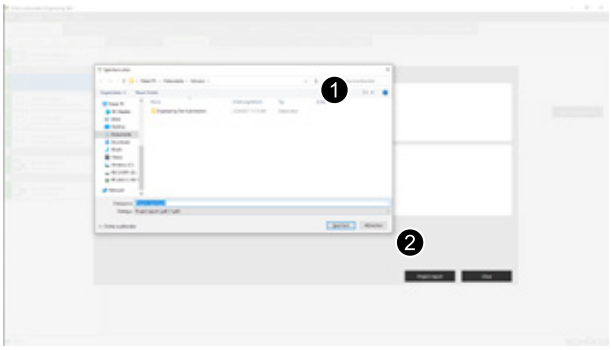
3. Click “Close” (2) to exit the installation wizard.
» The “Begin commissioning” display is then shown again.

or

1. Click “Project report” (1).
» You will then see the following screen display:

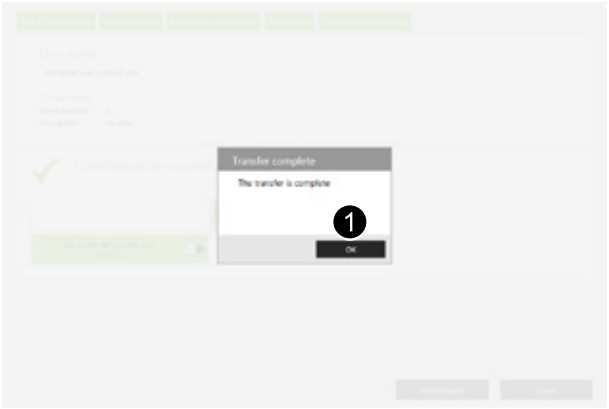
Project report

The project report (PDF format) is used to document the latest status of the installation.



If you click on “Project report”, a pop-up window appears (1).

1. In the pop-up window (1), select the directory to which you want to save the project report.
2. In the pop-up window, click “Save” (2).
» You will then see the following screen display:



The “Transfer complete” pop-up window is then shown.

1. Click “OK” (1).

» The project report is saved in the selected directory.

» The project report is shown as a PDF document in a separate window.

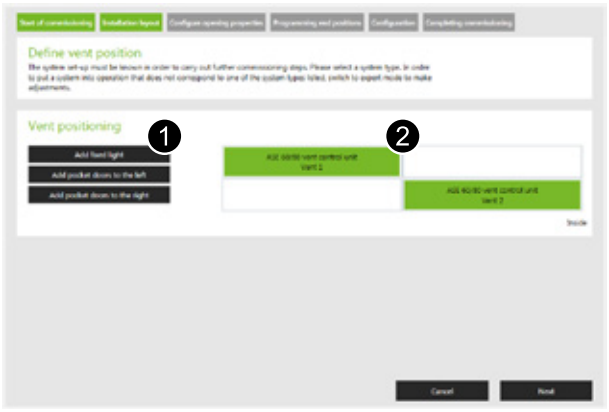
» You will then be shown the “Finish commissioning” screen display.

12.4.7 Expert mode

INFORMATION

In this mode, no check is made to ensure that the composition of the installation is technically and logically correct. Proceed with care with regard to entering information, in order to avoid errors down the line in commissioning as well as damage to the installation.

Once you have switched to “Expert mode”, you will see the following input wizard (example):

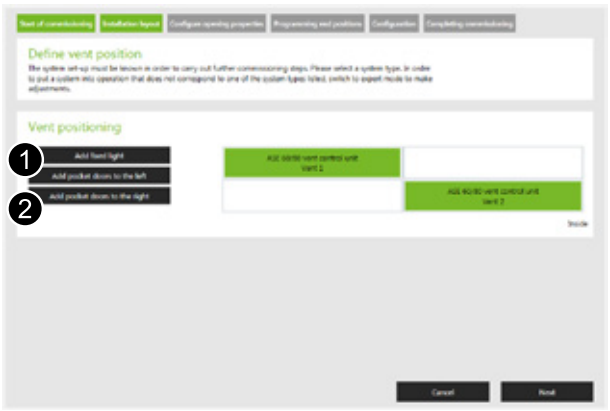


Under “Vent positioning” (1), the following possible options are shown:

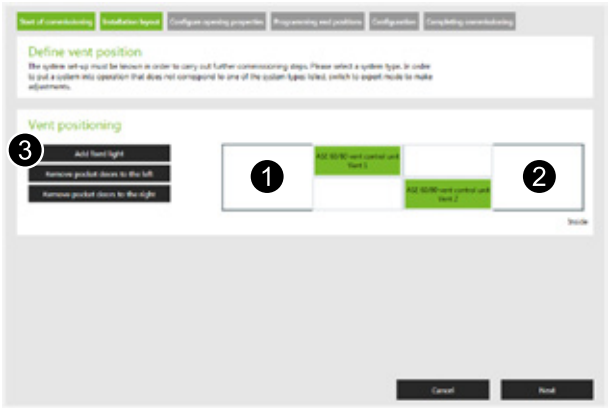
- Add fixed light
- Add/remove left-hand pocket door
- Add/remove right-hand pocket door

The selected option is shown in green.

The latest installation layout is shown in the schematic diagram (2).

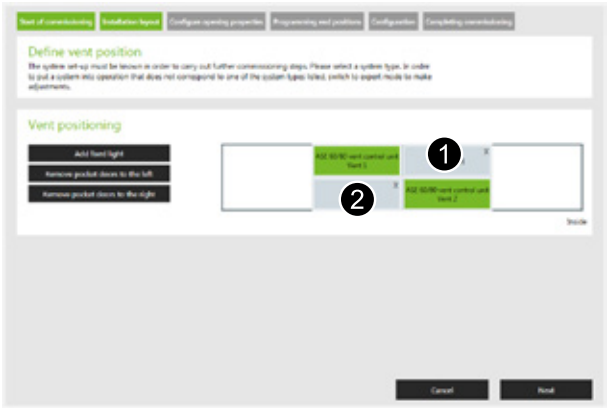


1. Click “Add left-hand pocket door” (1) and “Add right-hand pocket door” (2).
» You will then see the following screen display:



The pocket doors (1) and (2) are inserted in the schematic diagram.

2. Click “Add fixed light” (3).
» You will then see the following screen display:

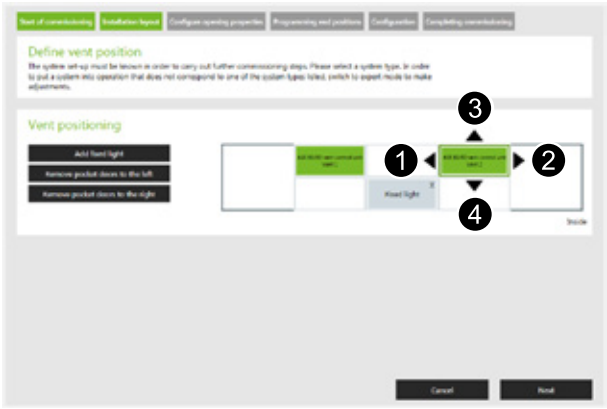


The possible positions of fixed lights (1) and (2) are shown with a grey background.

3. Click on a potential position (1) and/or (2) to specify this as a fixed light.
» The unit receives the description of “Fixed light”.

You can specify more fixed lights by means of the same procedure.

You can delete fixed lights by clicking on the “X” in the fixed light.



The pocket door cannot be moved in the schematic diagram.
You can move vents and fixed lights until they are shown in the actual installation layout.

4. Click on the unit that you want to move.
» The unit is marked with a green frame.
» Arrows appear around the unit. They indicate the direction in which the unit can be moved.
5. Click on the arrow pointing in the direction in which you would like to move the vent.
» Click on the right (2) or left (1) arrow to move the selected unit.
» Click on the “Down” (4) arrow or “Up” (3) arrow to add a third track to the installation where necessary.
6. Proceed in the same way with the other units until the current state is displayed.
» You will then see the following screen display (example):

7. Click “Next” (1) when the schematic diagram matches the current status of the installation layout.
» You will then see the following screen display (example):

The schematic diagram now shows you the opening directions and the positions of the motors (2).

8. Check whether these details match the current status of the installation.
» Possible, foreseeable adjustments (1) are shown to you here, e.g. change direction of opening and/or replace secondary and access leaf.
9. Click on the vent to which you would like to make changes.

If an adjustment is now possible, the corresponding button is then shown in black. However, if the button is shown in grey, the indicated adjustment is not possible.

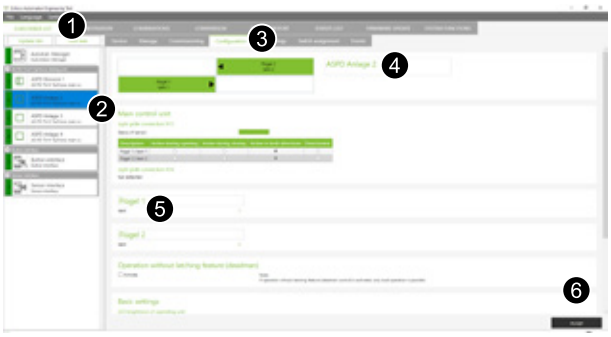
10. Click on the corresponding button to make the adjustment (1).
11. Click “Next” (3).
» The input wizard for expert mode is ended.
» The screen display switches to “Program end positions”.

12.5 Configuration

Under this menu item, you can

- Change the names of the installation and the vents
- Make security settings
- Make basic settings for the installation

Change description

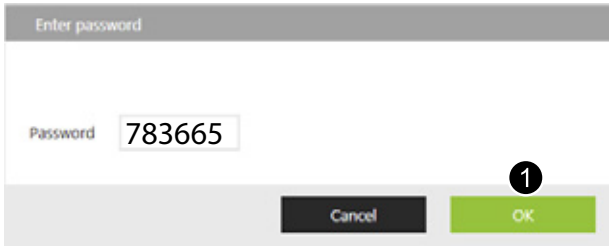


12. In the main menu bar, click “Subscriber list” (1).
13. Select the corresponding unit (2) from the subscriber list.
14. Click on the “Configuration” tab (3).
» You can now change the name of the installation and/or the vent.
15. Click on the corresponding name field “Installation” (4) or “Vent” (5) and make the changes.
16. Click the “Copy” (6) button to copy the changes.

Security settings

INFORMATION

If your change results in a reduced level of security in the security settings, then a password request pop-up window will appear.

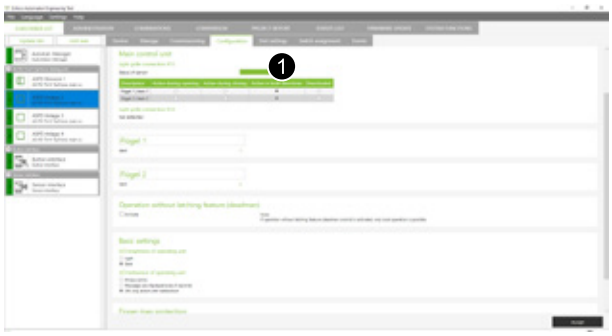


The password is: 783665.

The password cannot be changed.

1. Confirm your entry by clicking “OK”.

INFORMATION



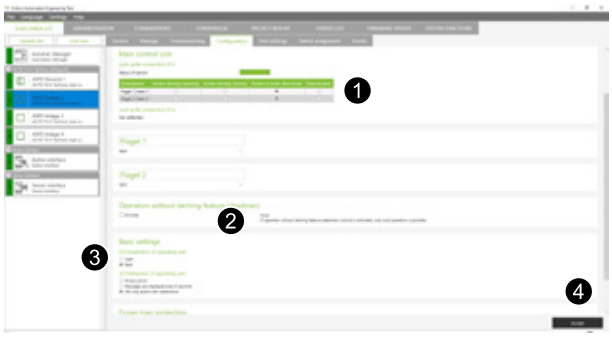
Coloured fields (1) are used to show the status of the sensors.

Meaning of the colours:

Light grey	– no security sensor available
Yellow	– security sensor triggered
Red	– security sensor error
Green	– Security sensor not activated
Dark grey	– security sensor temporarily deactivated

INFORMATION

If “operation without latching feature (dead man)” has been activated in the Automation Engineering Tool, the system can then only be moved via the operating unit and the wall operating switch. BUS operation is not permissible when the “dead man” is active.



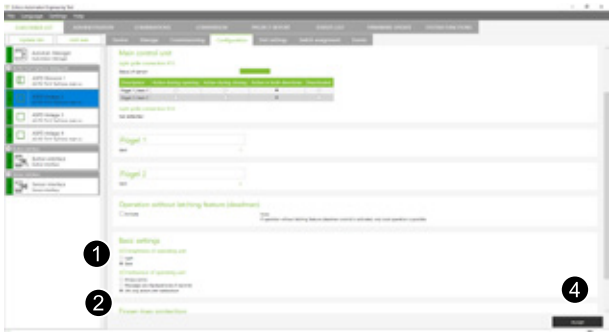
The list of options (1) for the security sensor at connection X13 offers you the following security settings:

- Active when open
- Active when closed
- Active in both directions
- Deactivated

1. Click the corresponding option to activate the corresponding setting.

2. Set the security sensors on the vents by selecting from the drop-down list shown (2).
3. Activate “operation without latching feature (deadman)” (3) by clicking on the check box.
4. Click “Copy” (4) to save the settings.

Basic settings



1. Set the
   - LED brightness (1)
   - LED behaviour (2)

   by checking the corresponding check box.

2. Click “Copy” (3) to save the settings.

12.6 Unit settings

Under this menu item you can see the available unit setting(s), depending on the installation type.

Furthermore, you can define simplified individual special cases for opening and closing the vents without having to make the settings irrelevant for this.

INFORMATION

Changes to the unit settings are adopted wherever these unit settings are used.
After making a change, check whether all the desired information still works as required.

3. In the main menu bar, click “Subscriber list” (1).
4. Select the corresponding unit (3) from the subscriber list.
5. Click on the “Unit settings” tab (2).

» The existing unit settings (4) for the installation are shown.

» Click “Edit” (5) or “Add” (6) to make the corresponding changes.

INFORMATION

A logic request is made as part of the settings. Only settings that are technically feasible for movement of the vent can be set for the vent.

The opening width is specified as a percentage of the maximum opening width.

12.6.1 Editing unit settings

Once you have clicked on “Edit”, the input wizard appears.

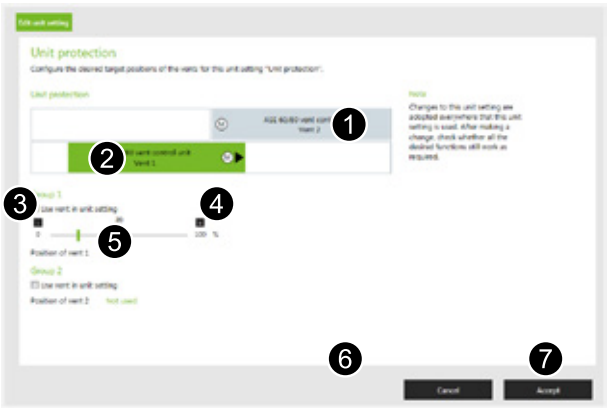
The schematic diagram (1) shows you the current settings.
The assigned opening widths (2) and (3) of the vent(s) are show as a percentage.

1. Check the check box (4) of the vent with the opening width you would like to edit.

INFORMATION

By checking or unchecking the check box (4), you determine which vent is activated and which isn‘t.

- Checked check box – vent is activated and shown in green.
- Unchecked check box – vent is not activated and shown in grey.



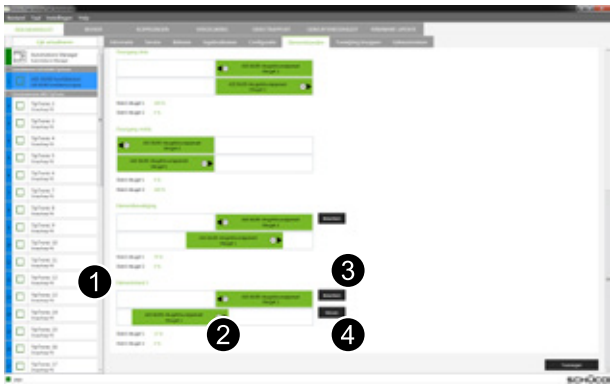
1. Check the check box of the vent with the opening width you would like to edit.
2. Click on the “-” (3) or “+” (4) buttons or use the slider (5) to specify the new target position.
3. Click on the “Run” button (6) to check the settings for the installation.
4. Make any changes where necessary.
5. Click the “Copy” (7) button to copy the changes.

» The input wizard is closed.

» You will once again see the “Unit settings” screen with the new settings.

12.6.2 Adding unit settings

If you click on “Add”, the same entry screen appears as that described under section ”11.6.1 Editing unit settings” on page 57.
Perform the same steps as described in the “Editing unit settings” section.

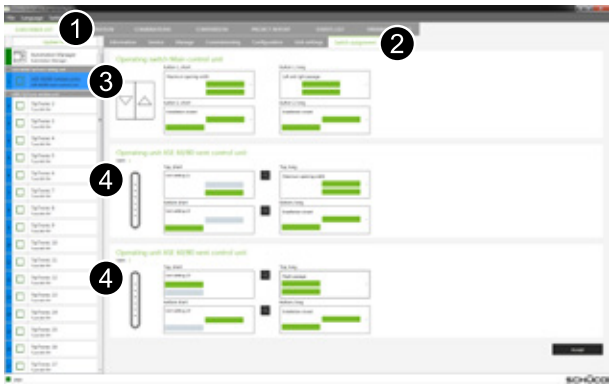


After closing the entry window, the “Unit settings” screen will show the following:

- Name (1) of the new unit (automated).
- Graphical display (2) with the vent position(s) given as a percentage.
- “Edit” button (3).
- “Delete” button (4).

12.7 Switch assignment

Under this menu item, you can see the available operating units and switches, depending on the installation type and the factory settings.



6. In the main menu bar, click “Subscriber list” (1).
7. Select the corresponding unit (3) from the subscriber list.
8. Click on the “Switch assignment” tab (2).

» You will see the operating switches (3) connected to the main control unit.

» You will see the operating units (4) of the individual vents.

» An indication will be given of where and how long you need to press a switch (5) in order to trigger the desired actions.

» You will be shown that there is a drop-down list (6) if various options are factory pre-set for a switch or operating unit.

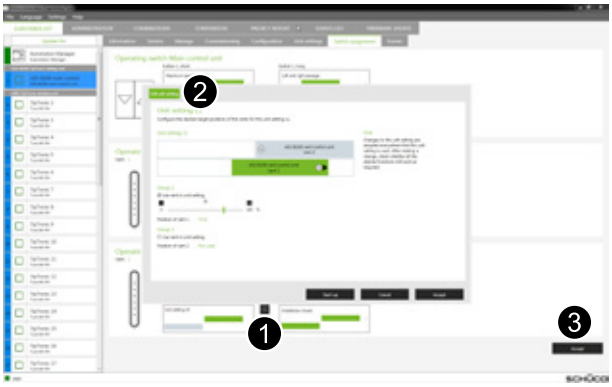
INFORMATION

The selected functions are activated for the switch.

- Press briefly (short command) - < press for 2 seconds
- Long press (long command) - > press for 2 seconds

1. Select the appropriate installation layout from the drop-down list (1).
2. Click the “Copy” (3) button to copy the changes.

If you are not shown any applicable installation layout in the drop-down list (1), then create a new unit setting, see section “11.6 Unit settings” on page 58.



If you wish to change the unit settings for a short command, proceed as follows:

1. Click the button (1) next to the corresponding vent. 

» The entry window “Edit unit setting” (2) appears.

» You can now continue to edit as described in section “11.6.1 Editing unit settings” on page 59.

2. Click the “Copy” (3) button to copy the changes.

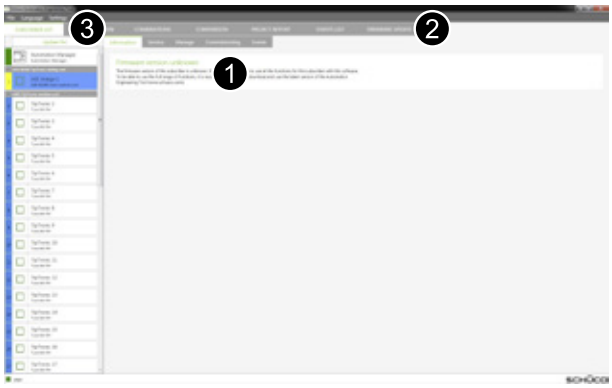
» The amended unit settings for the short command are now shown.

12.8 Events

See section “16.3 Event types” on page 124.

13 Configuration of AWS TipTronic

13.1 Information



The following messages (1) can be shown in this view:

- Subscriber is in the boot loader
- Subscriber is offline
- Firmware update available
- Unknown firmware detected
- Firmware status unknown.

A firmware update is required for the messages “Subscriber is in the boot loader” and “Unknown firmware detected”.

If the message “Firmware update available” appears, we recommend performing a firmware update.

1. In the main menu bar, click “Firmware update” (2).
2. Perform the actions described under section “9.7 Firmware update” on page 34.

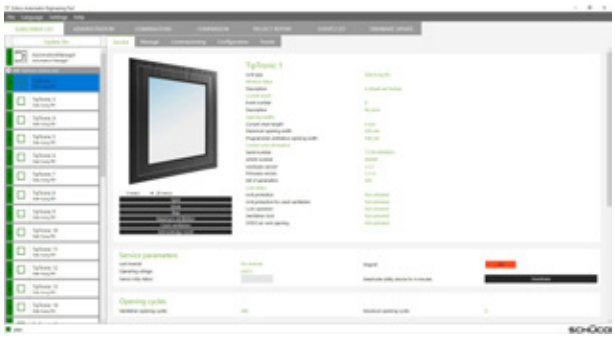
If the message “Firmware version unknown” appears, we recommend that you update the software version of the Automation Engineering Tool.

1. Click on “Settings” (3) in the program menu bar
2. Perform the actions described under section “8.3 Settings” on page 21 to perform a manual update.

13.2 Service

Under this menu item, you can see information and operating options for the unit selected.

13.2.1 Information in the Service tab



Visual representation of the unit. If a sensor strip is present, it is shown in the window graphic as a coloured (broken) line:

Green - not activated
Yellow - triggered
Red - disrupted
Grey - deactivated

The status of the magnet is shown with a coloured rectangle:

Green - window closed, magnet correctly positioned

Red - window open or magnet incorrectly positioned

13.2.2 Actions in the “Service” tab

You can give movement commands using the buttons underneath the window graphic.

You can deactivate the sensor strip for 5 minutes.

1. Click “Deactivate”.

» The “Transfer complete” pop-up window appears.

2. Click “OK”.

In the system functions section you can run a factory reset and/or a window test.

Factory reset

This resets all of the unit settings.

1. Click “Factory reset”.

» The prompt “Do you really want to perform a factory reset? Set data will be lost as a result.” appears.

2. To exit the menu:
   Click on “No”.

» The factory reset will be cancelled.

3. To continue with the action:
   Confirm with “Yes”.

» The factory reset will be performed.
All unit settings will be lost.

» The “Transfer complete” pop-up window appears.

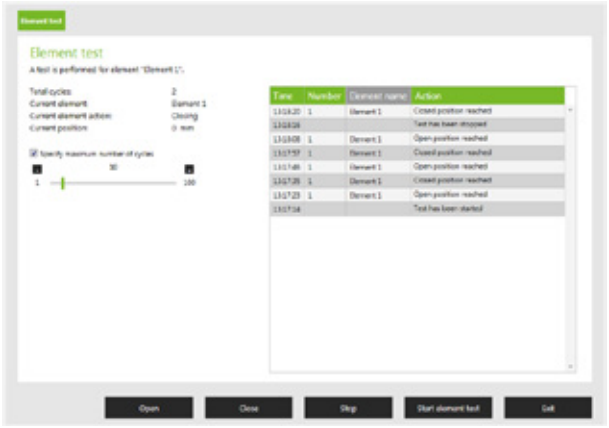
INFORMATION

The unit is moved to commissioning mode.

Window test

1. Click on “Window test”

» The wizard for the unit test launches.



2. Click on the “Specify maximum number of cycles” check box.

» The slider for specifying the number of cycles appears.

3. Set the number of test cycles.
4. Click “Start unit test”.

» The unit is moved to the ventilation opening width and then closed again.
This process is repeated for the set number of cycles.

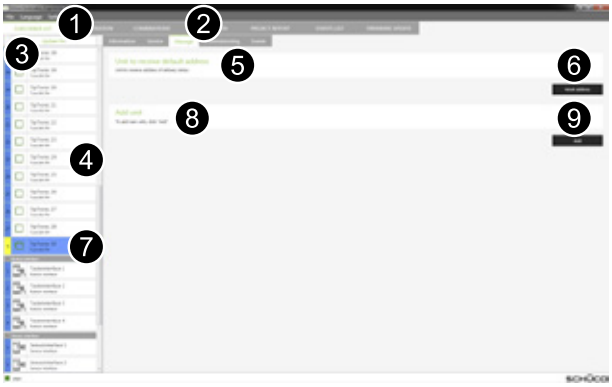
5. The unit is moved to the ventilation opening width and then closed again.

» This process is repeated for the set number of cycles.

13.3 Manage

Under this menu item, you can

- Reset the address for a unit to the default delivery configuration. This may be necessary if an error has been made when setting the address or if the control unit is to be added to a new group.
- Add a new unit.
- Assign a predetermined address to a unit. This can occur when units are preconfigured in the workshop.
- Replace an existing unit with a new unit or remove an existing unit. This can occur when a defective control unit needs to be replaced or if a unit needs to be omitted entirely.



Reset unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (4) from the subscriber list.
3. Click on the “Manage” tab (2).
4. In the “Unit to receive default address” (5) row, click on “Reset address” (6).

» The selected unit receives the address of the default delivery configuration.

Add Element

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (7) from the subscriber list (is is labelled with an “N” rather than a number).
3. Click on the “Manage” tab (2).
4. In the “Add unit” (8) row, click “Add” (9).

» The selected unit automatically takes the next free address.

5. Then click on “Update list” (3).

Assign unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the unit shown (3) from the subscriber list.
   Ensure that there is only one unit (and not an offline unit) in the subscriber list (1).
3. Click on the “Manage” tab (2).
4. In the “Assign default address” (4) row, click on “-” (5) or “+” (6)
   or
   use the slider (7) to specify the new address.
5. Click on “Copy address” (8).

Replace or remove unit

1. In the main menu bar, click “Subscriber list” (1).
2. Select the offline unit to be replaced (2) from the subscriber list.
3. Click on the “Manage” tab (3).

Remove unit

1. Click the “Remove unit” button to remove a unit from the subscriber list without replacing it.

Replace unit

1. Select the replacement unit (4) from the list shown.
2. Click on “Copy address” (6).

» The combinations from the offline unit are now copied over.

13.4 Commissioning tab

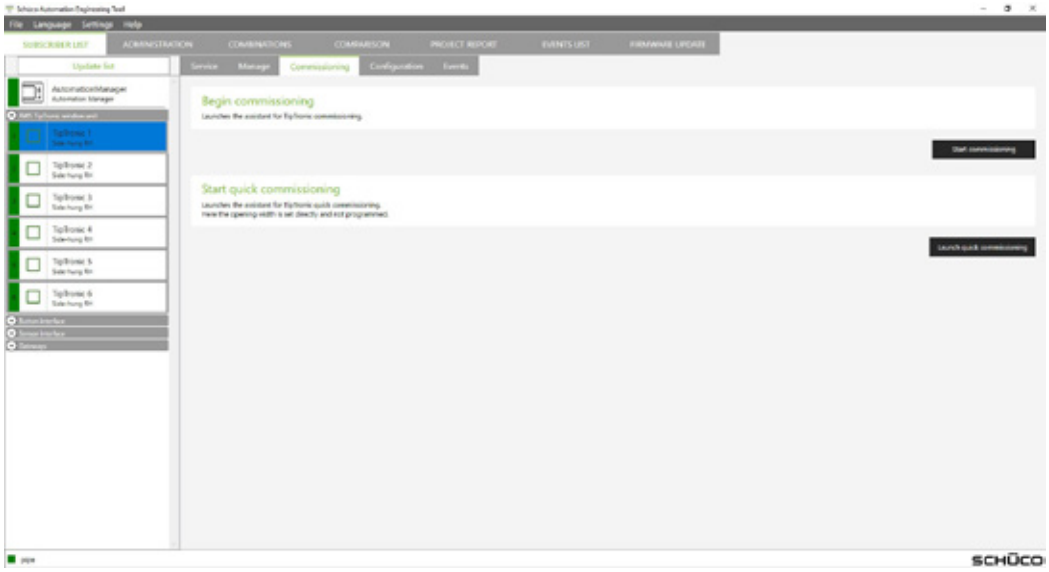
Under this menu item, you can commission the Schüco units.

A unit that has already been commissioned can be recommissioned at any time.

There are 2 options for commissioning AWS TipTronic units:

- Commissioning
- Quick commissioning

Both methods of commissioning are carried out using a wizard. However, quick commissioning skips the settings for the opening width and the final check of the sensor strips.

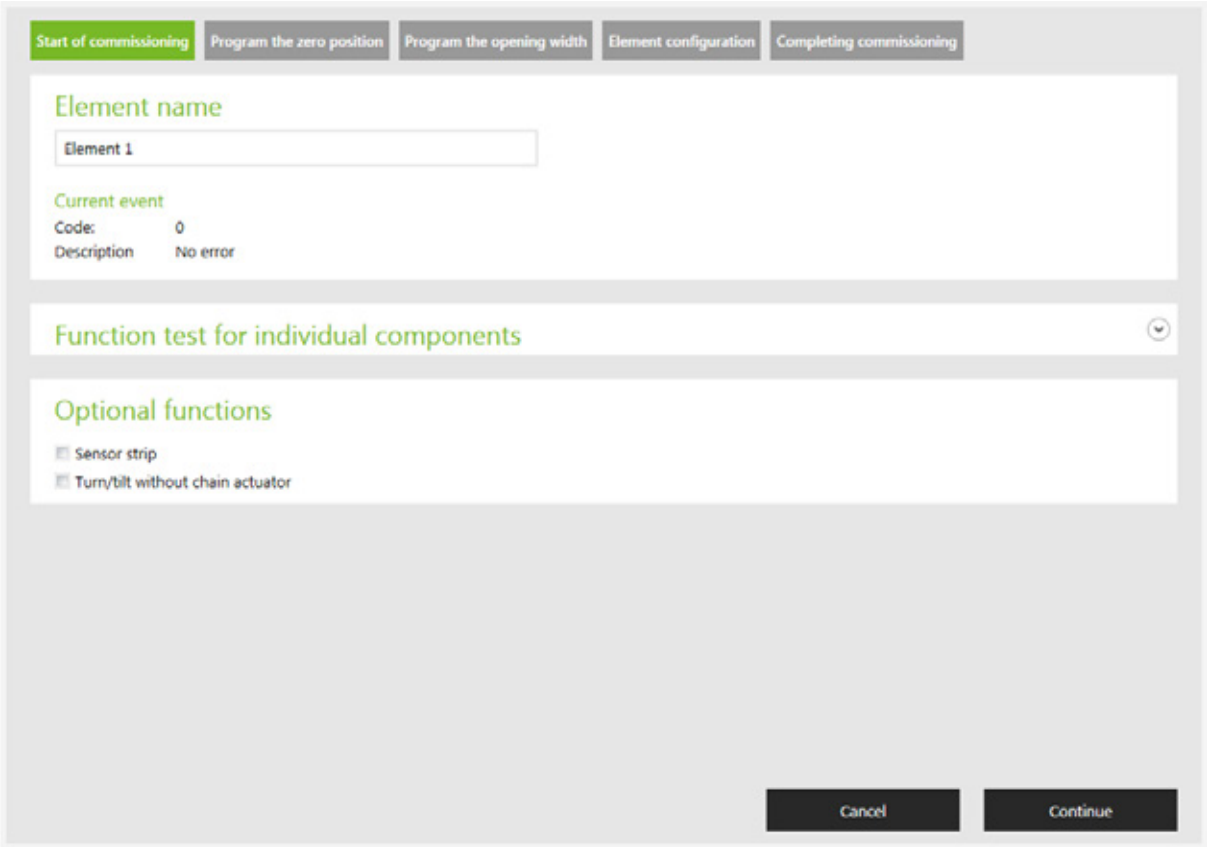


1. In the main menu, click “Subscriber list”.
2. Select the desired unit from the subscriber list.
3. Select the “Commissioning” tab.
4. Click on the “Start commissioning” or “Start quick commissioning” button.
» The wizard for the TipTronic SimplySmart commissioning launches.
5. Follow the wizard instructions and perform the commissioning.

13.4.1 Commissioning wizard

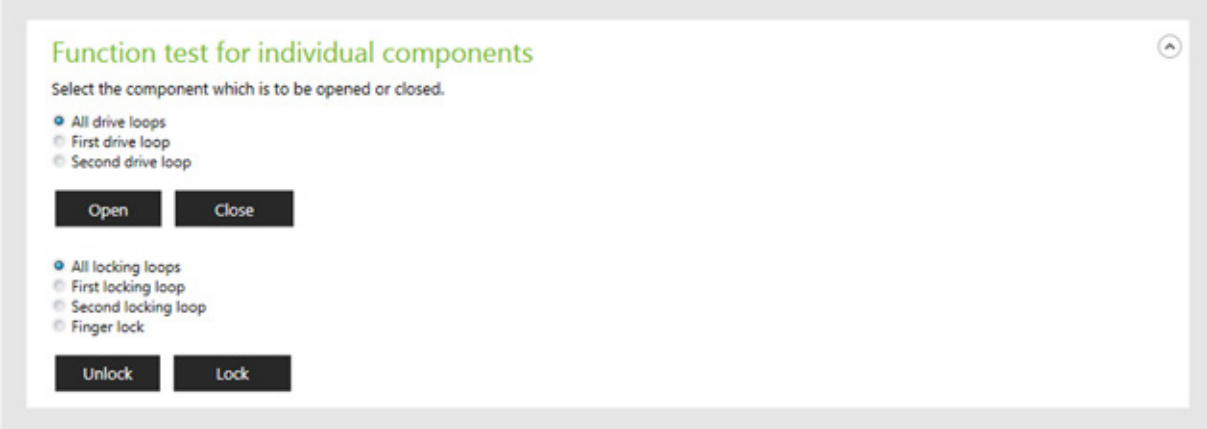
The commissioning assistant supports you with the unit settings and tests in five steps:
1. Start commissioning (Function test for individual components and selection of unit options)
2. Programming the zero position (drive and magnet test)
3. Programming the maximum opening width
4. Unit configuration (setting the ventilation opening width, operating and security functions)
5. Completing commissioning (moving the unit and testing the sensor strip)

13.4.2 Start commissioning



You can run a function test for individual components of this unit.

1. Click on the triangle at the end of the “Function test for individual components” row.



2. Use the option field to select the component which is to be opened or closed.
3. Click “Open” or “Close”.

» The chain actuator will move (dead man operation mode) for as long as the button is operated.

4. Use the option field to select which component is to be unlocked or locked.
5. Click “Unlock” or “Lock”.

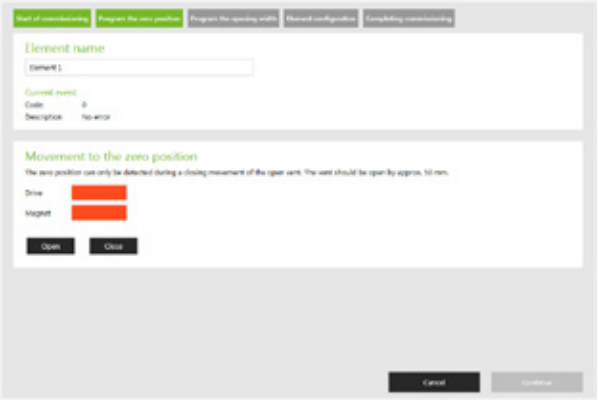
» The desired component is unlocked or locked.

6. Select the functions which are optional depending on the unit type (see appendix below)
7. Then click “Next”.

Appendix for “6. Select the optional functions”:

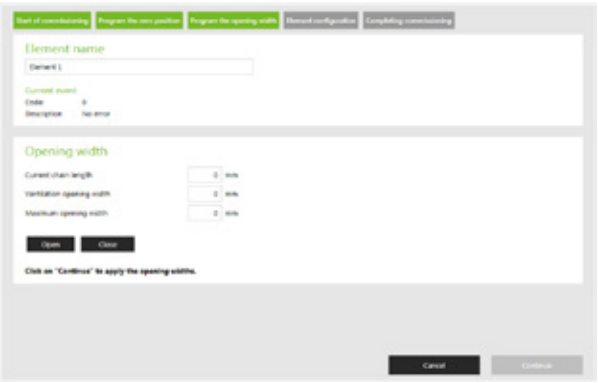
Sensor strip	Select “Sensor strip” if a unit needs to be initialised with a sensor strip.
Turn/tilt without chain actuator	Select “Turn/tilt without chain actuator” if a unit needs to be programmed without a chain actuator. The next commissioning steps are omitted in this case. Close the window to complete commissioning manually.
Drawbridge	Select “Drawbridge” if a unit needs to be initialised as a drawbridge unit (side installation of the chain actuator). In the following information on opening widths, a corresponding factor has already been taken into account. The listed opening widths correspond to the actual opening widths.

13.4.3 Programming the zero position



1. Perform the movement to the zero position.
» The zero position can only be detected during a closing movement of the open vent. The vent should be open by approx. 50 mm.
2. Click “Open”.
» The unit is opened for as long as the button is operated (dead man operation mode).
3. Click “Close”.
» The unit is closed for as long as the button is operated (dead man operation mode).
» The “Drive” and “Magnet” colour fields change from red to green. The “Next” button is active.
4. Then click “Next”.

13.4.4 Programming the maximum opening width (Not available in quick commissioning)



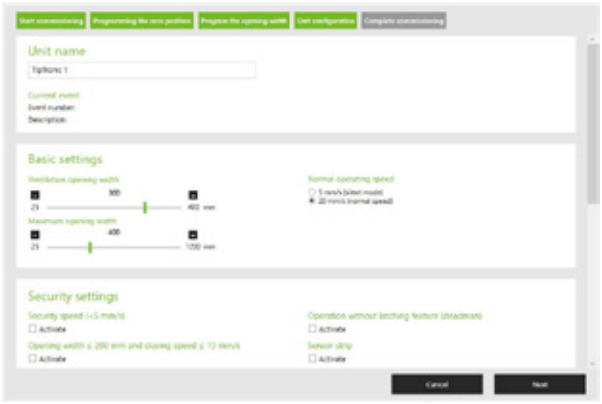
Program the maximum opening width.

1. Open the units.
2. Then click “Next”.
» The opening width is copied over.

13.4.5 Unit configuration

All important unit configurations are retrieved by the commissioning wizard. You can adjust these later without starting commissioning. To do this, select the desired unit from the subscriber list and click on the “Configuration” tab.

Basic settings



- Ventilation opening width

1. Set the value for the ventilation opening width by means of the “Ventilation opening width” slider.
2. The unit can be opened up to this opening width in the ventilation position (100%) (positioning between 0% and 100%).

- Maximum opening width

1. You can set the value for the maximum opening with via the “Maximum opening width” slider.
2. The unit can be opened up to this opening width.

- Silent mode

1. To activate the “Silent mode” function, select the 5 mm/s Silent Mode entry for the normal operating speed.
2. The “Silent mode” function is permanently activated. The unit moves at a reduced speed when opening and closing.

Settings for operating functions (only for turn/tilt)

- Turn function

This operating function allows the unit to be opened in the turn position with a rocker switch or an operating switch.

1. To activate the turn function, check “Activate”.
2. Then click “Apply”. The turn function is activated. To deactivate the turn function, remove the checkmark from “Activate”.

» The turn function is deactivated.

If the function is activated, the opening can be made in the turn position by holding down the close button.

- Anti-turn lock

This operating function prevents the unit from opening in the turn position on the operating unit.

1. To activate the anti-turn lock, check “Activate”.
2. Then click “Next”.

» The anti-turn lock is activated.

To deactivate this function, remove the checkmark from “Activate”. The anti-turn lock is deactivated.

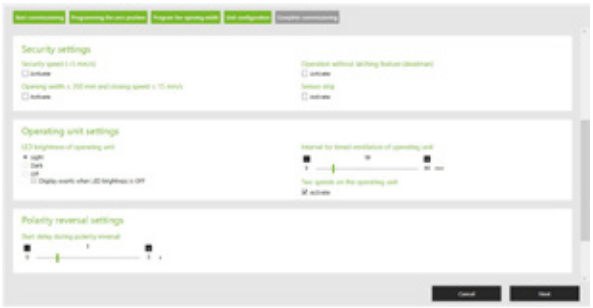
- Balcony door function

This operating function deactivates automatic locking with a vertical handle position. The lever position must be changed from horizontal to vertical in order to lock.

1. To activate the balcony door function, check “Activate”.
» The balcony door function is activated.

2. To deactivate the balcony door function, remove the checkmark from “Activate”.
» The balcony door function is deactivated.

Security settings



- Security speed
  To achieve safety class 3, you can limit the speed to max. 5 mm/s.
  To activate the “Security speed” function, check “Security speed”.
  The “Security speed” function is activated.
  The unit moves at max. 5 mm/s when opening and closing.

- Operation without latching feature (deadman)

To achieve safety class 3, you can limit operation to manual operation without latching feature.

1. In order to activate the “Operation without latching feature (deadman)” function, check the “Activate” box.
» The “Operation without latching feature (deadman)” function is activated. The unit can only be opened and closed manually by holding down the button on the operating unit.

- Opening width ≤ 200 mm and closing speed ≤ 15 mm/s

You can limit the opening width to 200 mm and the movement speed to 15 mm/s. To do this, check the “Opening width ≤ 200 mm and speed ≤ 15 mm/s” checkbox.

The unit will now move at max. 15 mm/s and the opening width is limited to 200 mm.

- Sensor strip

This function can be used to activate and deactivate a sensor strip if one is installed.

INFORMATION

You must enter the password “783665” to deactivate the security settings.

Operating unit settings

● LED brightness of operating unit
You can adjust or switch off the LED brightness of the operating units.

1. To adjust the LED brightness to “light” or “dark”, check “Light” or “Dark”.
» The LED brightness is adjusted to “Light” or “Dark”.

2. To switch off the LED, check “Off”.
» The LED is switched off.

● Display events when LED brightness is OFF
This operating function enables events to be displayed when the LED is switched off.

1. Check the “Display events when LED brightness is OFF” check box.
» Events are also displayed when the LED brightness function is switched off.

● Interval for timed ventilation of operating unit
1. Set the “Interval for timed ventilation of operating unit” by means of the slider.
» The unit can be opened for the set time by pushing a button on the operating unit. Once the set ventilation time has expired, the unit closes automatically

● Two speeds on the operating unit
With this operating function, the operation can be switched to a short and long command evaluation. With a short command, the unit is moved at a minimal speed (5 mm/s silent mode); with a long command, it is moved at normal operating speed (20 mm/s).

1. To activate the “Two speeds on the operating unit” function, check “Two speeds on the operating unit”.
» The “Two speeds on the operating unit” function is activated.
The unit moves at the corresponding speed depending on how the button is pressed.

Polarity reversal settings

● Start delay during polarity reversal (not for turn/tilt)
1. Set the start delay during polarity reversal.
» The start delay is set.

» During polarity reversal, the unit responds in accordance with the set start delay.

Operating error

● Number of closing attempts
With this function, it is possible to set the maximum number of closing attempts before the unit is to switch into dead man operation mode for closing commands.
1. Set the maximum number of closing attempts.
» The maximum number of closing attempts is set.

» Once the maximum number of closing attempts has been reached, the unit switches into dead man operation mode for closing commands. Dead man operation mode can be left again following a successful closing movement or by means of a bus command in the opening direction.

● Event acknowledgement required
1. In order to also activate the “Event acknowledgement required” function when the maximum number of closing attempts has been reached, check “Event acknowledgement required”.
» The “Event acknowledgement required” function is activated.

» Once the maximum number of closing attempts has been reached, the unit is locked for any operation (operating units and bus commands) and acknowledgement is required. After acknowledgement (bus command), it is switched into dead man operation mode for closing commands. Dead man operation mode can be left again following a successful closing movement or by means of a bus command in the opening or closing direction.

SHEVS settings

● Anfahrverzögerung bei RWA (nicht bei DK).
1. Set the start delay for SHEVS.

» For SHEVS, the unit responds according to the start delay set.

13.4.6 Completing commissioning (Not available in quick commissioning)

1. Click “Close”.
» The unit closes.
Test the sensor strip.

» Commissioning is concluded once the unit has successfully closed.
The unit is set up.

2. Close the commissioning wizard.
» The unit now has a green or blue rectangle next to its name, depending on whether it is already known to the Automation Manager.

13.5 Configuration

Under this menu item you can configure the units and set the operating functions. You can make individual changes at any time without having to start commissioning.

You can find a description for this in the section ”12.4.5 Unit configuration” on page 70.

To save the setting, click “Apply”.

You can load all configured data for a unit from the project file by clicking “Load from file”. This file is generated by means of the main menu “File” → “Save project file”.

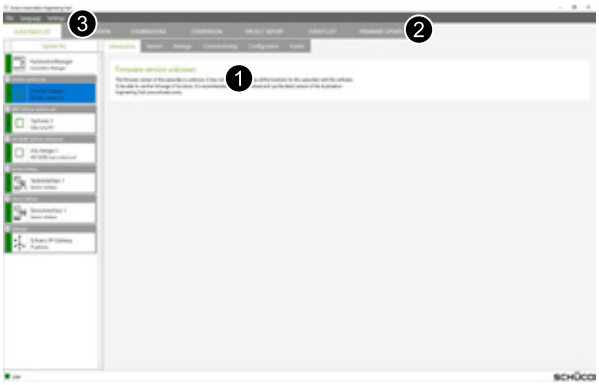
1. Click “Load from file”
2. Select the Schüco system file for your project from the file selection dialog box.
3. Click “Open”.
» The dialog box is closed and the configured data is loaded.

13.6 Events

See section “16.3 Event types” on page 124.

14 Configuration of Schüco DriveTec

14.1 Information



The following messages (1) can be shown in this view:

- Subscriber is in the boot loader
- Subscriber is offline
- Firmware update available
- Unknown firmware detected
- Firmware status unknown.

A firmware update is required for the messages “Subscriber is in the boot loader” and “Unknown firmware detected”.

If the message “Firmware update available” appears, we recommend performing a firmware update.

1. In the main menu bar, click “Firmware update” (2).
2. Perform the actions described under section “9.7 Firmware update” on page 34.

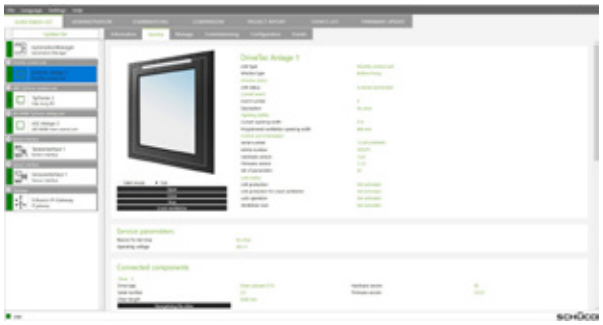
If the message “Firmware version unknown” appears, we recommend that you update the software version of the Automation Engineering Tool.

1. Click on “Settings” (3) in the program menu bar
2. Perform the actions described under section “8.3 Settings” on page 21 to perform a manual update.

14.2 Service

Under this menu item, you can see information and operating options for the unit selected.

14.2.1 Information in the Service tab

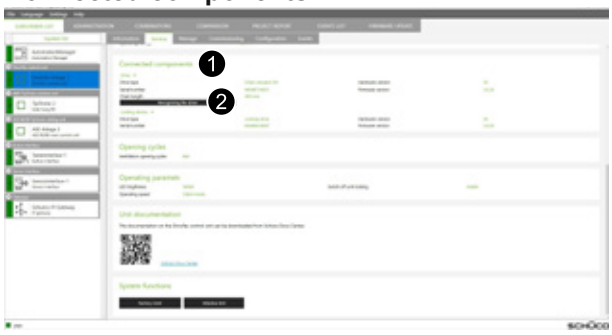


Visual representation of the unit

14.2.2 Actions in the “Service” tab

You can give movement commands using the buttons underneath the window graphic.

Connected components



The “Connected components” (1) section displays all the connected DriveTec components (including key technical data).

Clicking on “Identify drive” (2) will trigger acoustic feedback from the selected drive – the drive audibly vibrates. This helps to identify on site which drive in the Automation Engineering Tool corresponds to which drive on the unit.

In the system functions section you can run a factory reset and/or a window test.

Factory reset

This resets all of the unit settings.

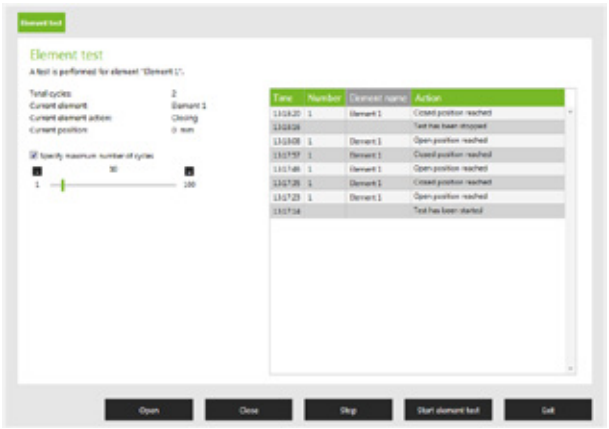
1. Click “Factory reset”.
2. The prompt “Do you really want to perform a factory reset? Set data will be lost as a result.” appears.
3. To exit the menu:
4. Click on “No”.
5. The factory reset will be cancelled.
6. To continue with the action:
7. Confirm with “Yes”.
8. The factory reset will be performed.
9. All unit settings will be lost.

» The “Transfer complete” pop-up window appears.

Window test

1. Click on “Window test”

The wizard for the unit test launches.



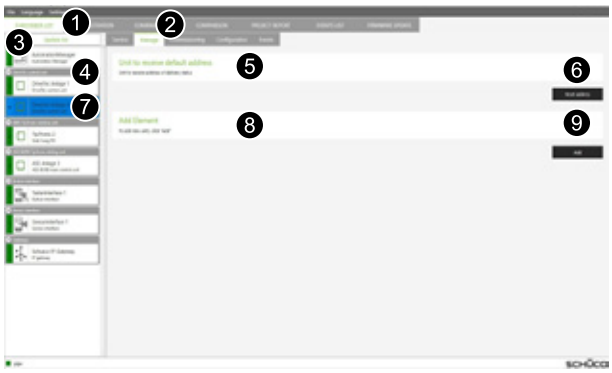
2. Click on the “Specify maximum number of cycles” check box.
» The slider for specifying the number of cycles appears.
3. Set the number of test cycles.
4. Click “Start unit test”.
» The unit is moved to the ventilation opening width and then closed again.
» This process is repeated for the set number of cycles.

5. Click “End” if you want to end the unit test early.
» The wizard for the unit test is ended.
» The current action is still being finished by the unit.

14.3 Manage

Under this menu item, you can

- Reset the address for a unit to the default delivery configuration. This may be necessary if an error has been made when setting the address or if the control unit is to be added to a new group.
- Add a new unit.
- Assign a predetermined address to a unit. This can occur when units are preconfigured in the workshop.
- Replace an existing unit with a new unit or remove an existing unit. This can occur when a defective control unit needs to be replaced or if a unit needs to be omitted entirely.



Reset unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (4) from the subscriber list.
3. Click on the “Manage” tab (2).
4. In the “Unit to receive default address” (5) row, click on “Reset address” (6).

» The selected unit receives the address of the default delivery configuration.

Add unit

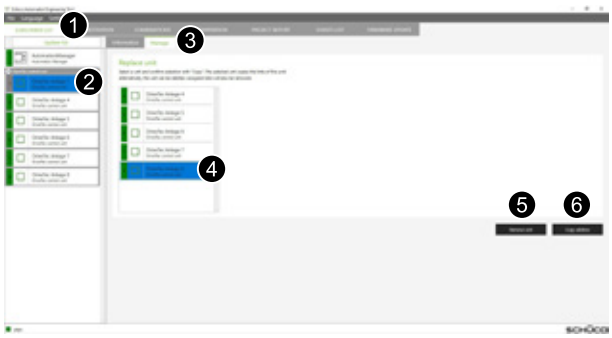
1. In the main menu bar, click “Subscriber list” (1).
2. Select the corresponding unit (7) from the subscriber list (is is labelled with an “N” rather than a number).
3. Click on the “Manage” tab (2).
4. In the “Add unit” (8) row, click “Add” (9).

» The selected unit automatically takes the next free address.

5. Then click on “Update list” (3).

Assign unit address

1. In the main menu bar, click “Subscriber list” (1).
2. Select the unit shown (3) from the subscriber list.
   Ensure that there is only one unit (and not an offline unit) in the subscriber list (1).
3. Click on the “Manage” tab (2).
4. In the “Assign default address” (4) row, click on “-” (5) or “+” (6) or use the slider (7) to specify the new address.
5. Click on “Copy address” (8).



Replace or remove unit

1. In the main menu bar, click “Subscriber list” (1).
2. Select the offline unit to be replaced (2) from the subscriber list.
3. Click on the “Manage” tab (3).

Remove unit

1. Click the “Remove unit” button to remove a unit from the subscriber list without replacing it.

Replace unit

1. Select the replacement unit (4) from the list shown.
2. Click on “Copy address” (6).

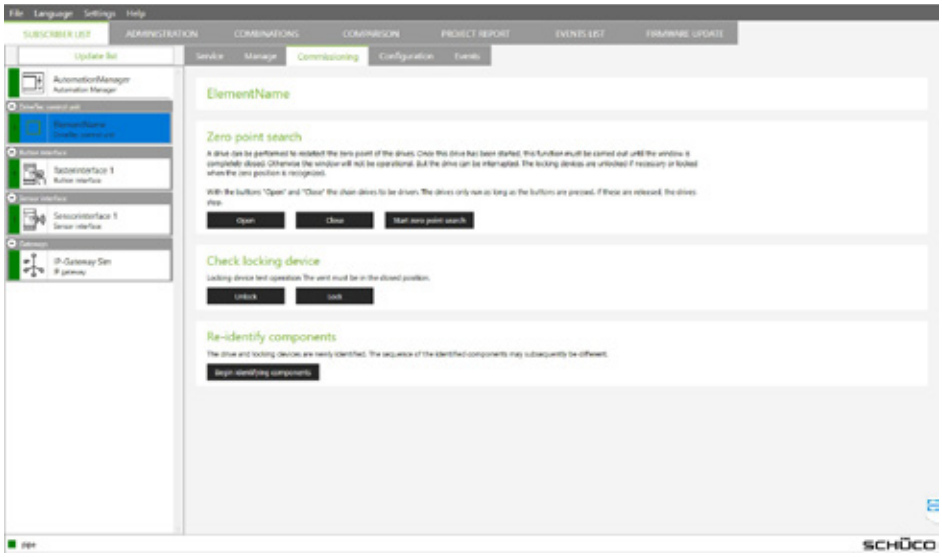
» The combinations from the offline unit are now copied over.

14.4 Commissioning tab

Commissioning (including programming the zero position and maximum opening width) of DriveTec drives is explained in more detail in the operating instructions of the control unit (Doc. No. 10000528457) and is carried out on the control unit itself.

You can check that commissioning has been carried out correctly in the “Commissioning” tab of the Automation Engineering Tool. You can:

- Fully open or close the unit and thus ensure the movement is correct
- Lock and unlock the locking device in order to ensure correct functioning (see also section 13.5 Configuration – locking device settings on page 80)
- Re-identify DriveTec components, which can be helpful, for example, if a DriveTec drive has been replaced



1. In the main menu, click “Subscriber list”.
2. Select the desired unit from the subscriber list.

3. Select the “Commissioning” tab.
4. Click on the button whose function you would like to check.
5. At the unit, check whether the function has been carried out correctly.

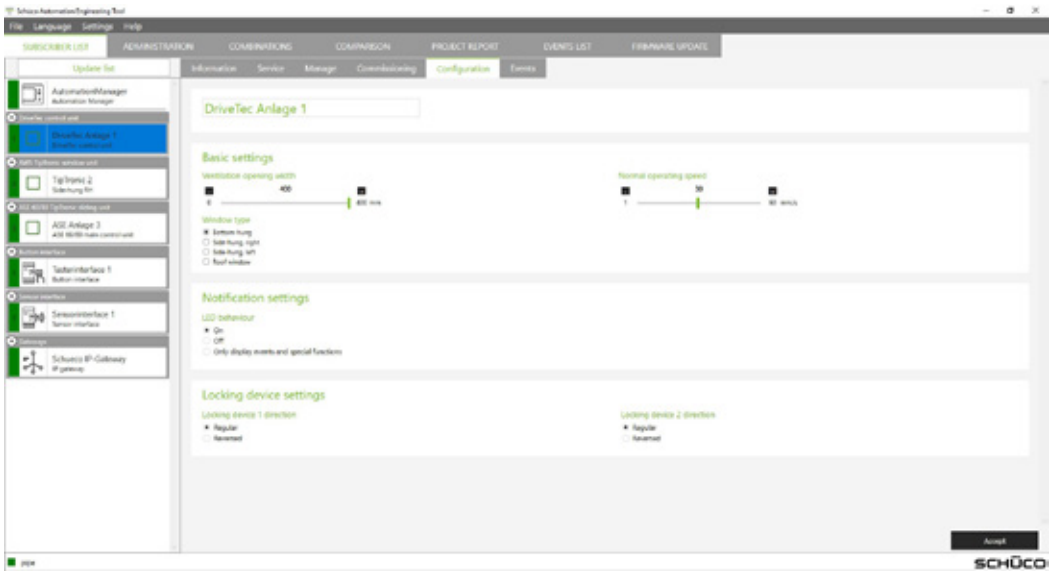
Re-identify components

When you click on “Re-identify components” the addresses of the DriveTec components (drives and locking devices) on the DriveTec control unit are deleted. A new search for all connected components is then carried out via the K-bus of the control unit and new addresses are provided.
This process can take several minutes.

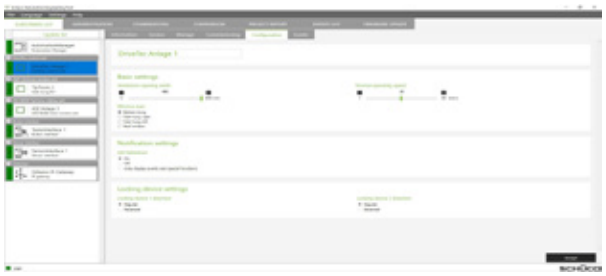
14.5 Configuration

Under this menu item you can configure the units and set the operating functions. You can make individual changes at any time.

To save the setting, click on “Apply”.



Basic settings



- Ventilation opening width

1. Set the value for the ventilation opening width by means of the “Ventilation opening width” slider.
2. The unit can be opened up to this opening width in the ventilation position (100%) (positioning between 0% and 100%).

- Normal operating speed

1. You can set the value for the movement speed during normal operation using the “Normal operating speed” slider.

Window type

1. Select which window type the DriveTec components are installed on.
» The visual representation of the unit in the “Service” tab changes. The selected window type is illustrated.

Notification settings

Here you can set the behaviour of the LED on the DriveTec control unit. The following settings are possible

- LED permanently on
- LED permanently off
- Only display events and special functions (e.g. finding addresses)

Locking device settings

Here the locking device(s) can be configured to lock in the regular or the reverse direction, depending on the installation position.
Depending on the installation position, the locking direction may need to be reversed. This is the case if the locking device unlocks when it should lock and vice versa.

14.6 Load configuration

You can load all configured data for a unit from the project file by clicking “Load from file”. This file is generated by means of the main menu “File” “Save project file”.

1. Click “Load from file”
2. Select the Schüco system file for your project from the file selection dialog box.
3. Click “Open”.
» The dialog box is closed and the configured data is loaded.

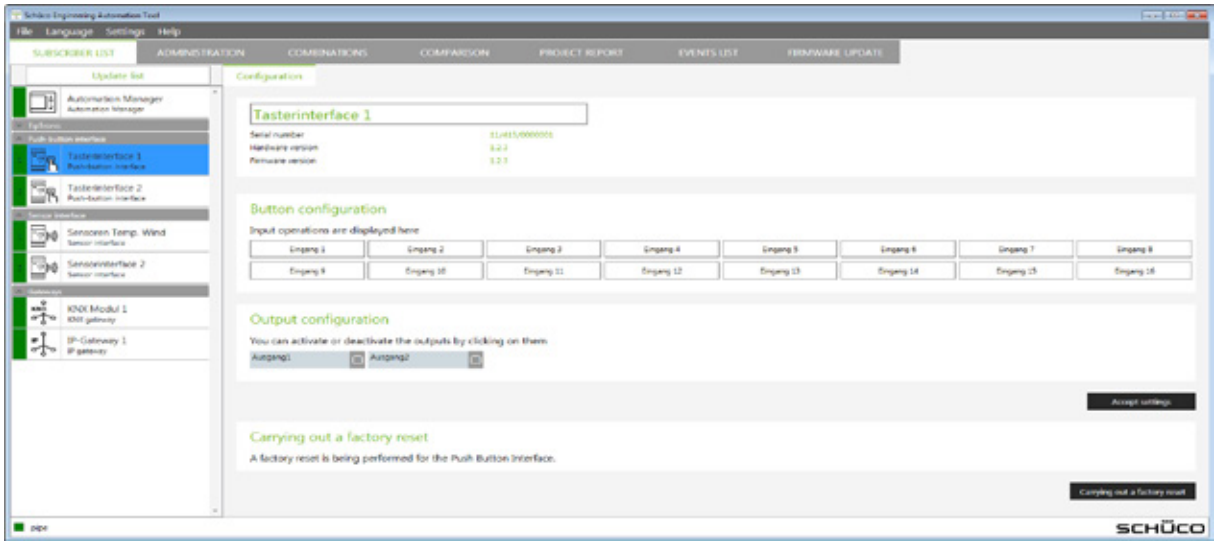
14.7 Events

See section “16.3 Event types” on page 124.

15 Configuration of interfaces and gateways

The system units on the device bus of the Automation Manager can be adjusted to the specific system requirements.

15.1 Basic configuration steps



1. In the main menu, click “Subscriber list”.
2. Select the desired unit from the subscriber list.

» The selected unit is highlighted in blue.

3. Select the “Configuration” tab.

» In the work space, you will see the configuration settings and the hardware and firmware versions.

- You can assign a name to all units in an entry field.
- The “Carry out factory reset” button is also available for most units. This reset always only refers to the selected unit. It resets the configured settings to the default values upon delivery.

15.2 Button interface

The button interface enables you to connect 16 individual buttons or 8 double rocker switches. A variety of functions can be stored at the available outputs, for example a control signal for heating.

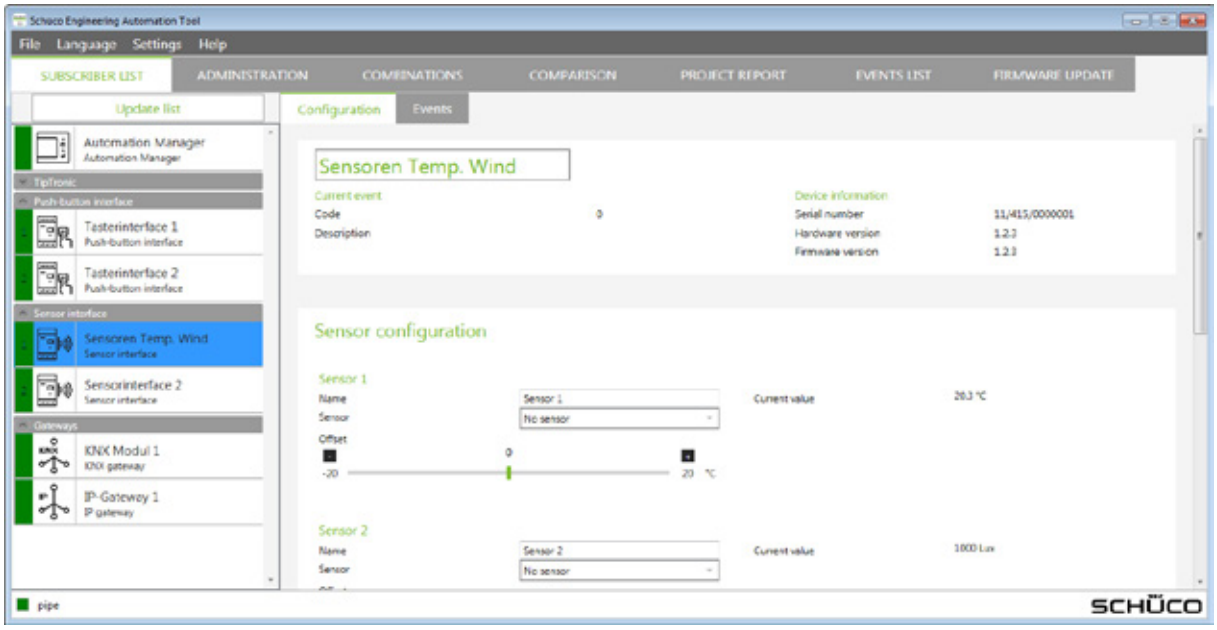
The button interface does not require specific configuration. The inputs and outputs are assigned functions by means of the “Combinations” main menu (See section “9.3 Combinations” on page 26.

The statuses of the inputs and outputs are shown in the “Configuration” tab. The outputs can be controlled by means of the check box (See section “10.8 Status display and operating options” on page 38).

You can enter a name for the interface in the entry field in the header of the work space. Further names can be assigned to the inputs and outputs. A reference to the input/output function can hereby be created.

15.3 Sensor interface

The sensor interface enables the connection of analogue sensors and sensors with a binary switching output. With the aid of these sensors, complex automatic functions such as night-time cooling can be achieved.



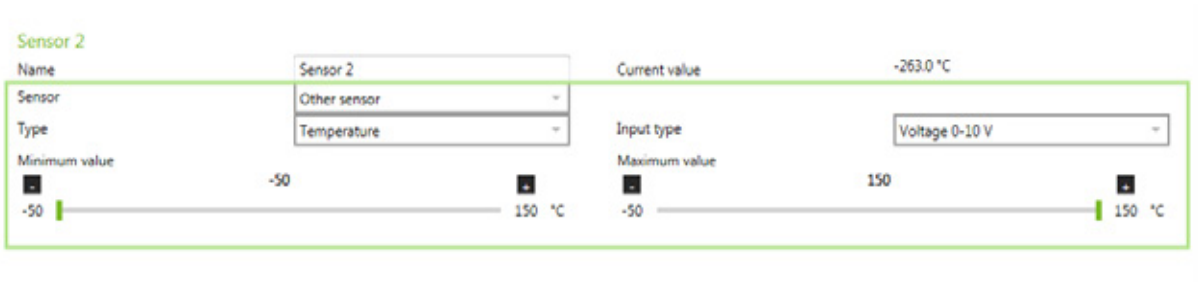
1. Select the sensor interface from the subscriber list.

» The selected unit is highlighted in blue..
In the work space, you can now change the settings for this interface.

2. Enter a name into the entry field of the sensor interface.
3. Enter a name into the entry field of the sensor.
4. Select the sensor type from the dropdown list.
5. Set the offset using the slider.
6. Click “Apply settings”.

» The data is transferred to the sensor interface.
The “Transfer complete” pop-up window appears.

If you select “Other sensor” from the dropdown list, two further dropdown lists and sliders appear in the work space.



Select the type from the first dropdown list.
From the second dropdown list, select whether the sensor will send a voltage signal (0-10 V) or current signal (4-20 mA).

Use the two sliders to specify the measuring range of the sensor:
Start of measuring range (0 V or 4 mA) using the Minimum value slider,
End of measuring range (10 V or 20 mA) using the Maximum value slider.

15.4 KNX gateway

The KNX gateway is connected between the KNX building bus and the Schüco device bus. With the KNX gateway, it is possible to control Schüco units from a KNX building bus. Conversely, status information and messages from Schüco units are made available on the KNX bus via the KNX gateway. The KNX gateway is set up via ETS4 or ETS5. The application is loaded into the ETS for this. The device has no control logic to control the units. It works as bi-directional data transfer.
Under Configuration, the entry field for the gateway name is available for the KNX gateway.

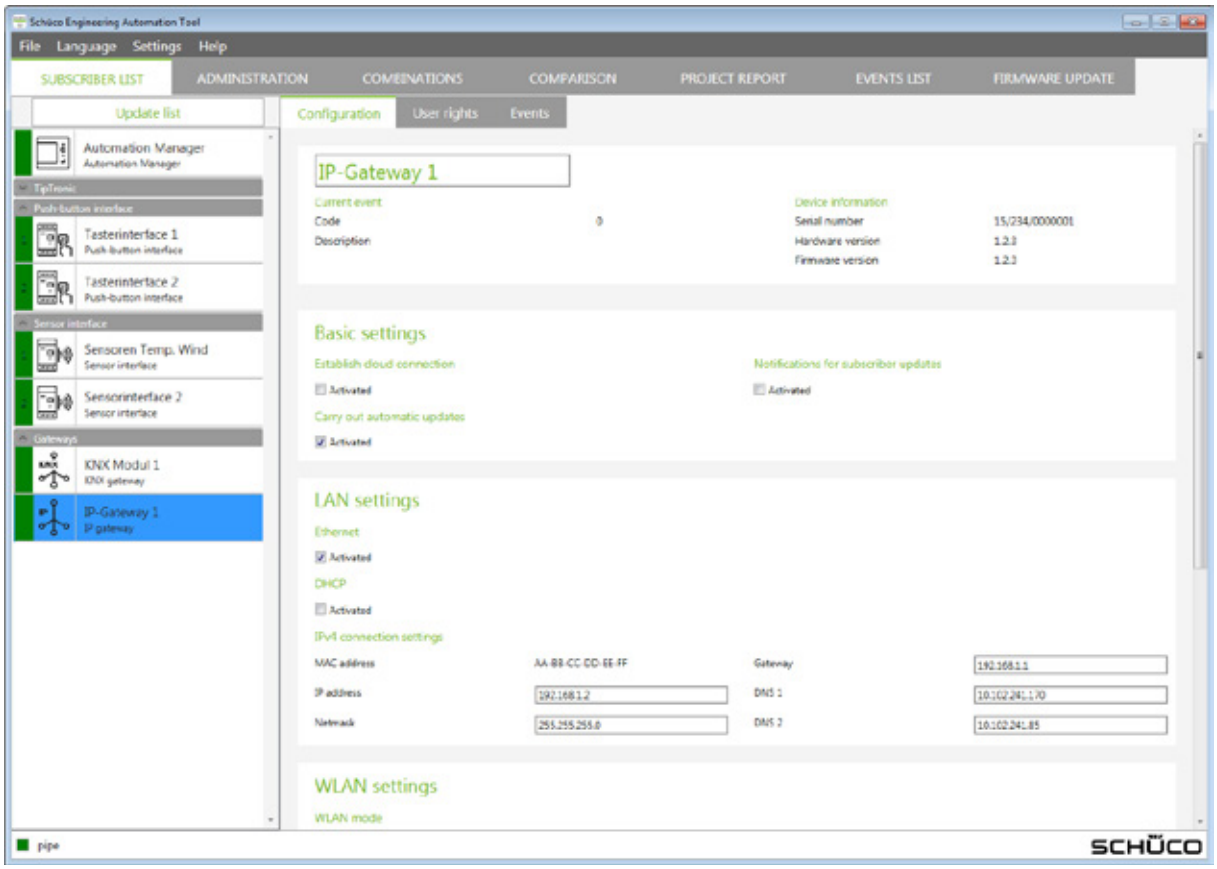
15.5 IP gateway

The IP gateway can be used to operate Building Skin Control units by means of the Schüco BSC app. For this, the app must be connected with the appropriate IP gateway (see section on Pairing). This connection allows both local access and flexible access to the system when on the move via a cloud service.

A basic requirement for this is professional installation and the correct settings in accordance with the existing network structure.

Configuration

1. Select the IP gateway from the subscriber list.
» The selected unit is highlighted in blue.
In the work space, you can now change the settings for the IP gateway.
2. Enter a name into the entry field of the gateway.
3. Make the basic settings (see “Basic settings” on page 75).
4. Make the LAN settings (see “LAN settings” on page 75).
5. Make the WLAN settings (see “WLAN settings” on page 77).
6. Click “Apply settings”..
» The data is transferred to the IP gateway.
The “Transfer complete” pop-up window appears.



Basic settings

- Establish cloud connection
  Check the check box if this gateway is to be reached by means of the cloud.

  A connection to the Schüco Cloud Service can be utilised to move units or to send status notifications about the units to your smartphone even when you are on the move. For this, the IP gateway must be connected to the router and the router to the internet. If the connection has been established, access to the cloud can be set up via the app.

- Carry out automatic updates
  Check the box if updates for the IP gateway are to be run automatically. If the check box is not checked, the updates must be run manually.

- Notifications for subscriber updates
  Check this check box if you would like to be notified of updates. You receive this information on the Automation Manager display.

LAN settings

- Ethernet
  Check the check box if the IP gateway is connected to the router via the Ethernet port and a cable.

- DHCP
  Check the checkbox if you are able to use the Dynamic Host Configuration Protocol (DHCP) to assign the network configuration by means of a DHCP server.

  DHCP makes it possible to link a computer to an existing network without manually configuring the network interface. Necessary information such as IP address, netmask, gateway, and domain name server (DNS) is assigned automatically.

IPv4 connection settings

If you are unable to use DHCP, you must make the address settings manually.

Common address distribution for private networks (values for entry fields are highlighted in bold; explanations underneath the table):

Description	Address	explanation
Netmask	255.255.255.0	The first 3 decimal places designate the network part/subnet
Network share of the address	192.168.1	Subnet address, same for all devices
Gateway	192.168.1.1	First address in this subnet, often the address of the router / gateway
IP address	192.168.1.2	Second address in this subnet, here the address of the IP gateway
Last IP address	192.168.1.254	Last possible address in this subnet
DNS 1	10.102.241.170	Address of the primary name server
DNS 2	10.102.241.85	Address of the secondary name server

The **MAC address** (media access control address) is the hardware address of a network subscriber. It is the unique identification for the device in a computer network and is permanently assigned in the hardware.

The **IP address** is the address in computer networks based on the internet protocol (IP). The devices can be given an address and are thereby accessible, in a similar way to a postal address on an envelope.

The **netmask** divides the IP address into a network part and a device part. The network address part is identical for all devices in a subnetwork. The information about whether a device is in the same subnet is required by the router / gateway in order to make routing decisions.

A **gateway** / router forwards data between several computer networks. The most common use is for the internet connection.

The **DNS** (domain server system) is one of the most important services in networks. Its main task is to answer requests for name resolution. The DNS is therefore often compared to directory assistance. The user knows the names (which are memorable to humans) of a computer on the internet – for example schueco.com. It sends them as a request to the internet. There they are then converted by the DNS to the associated IP address (the “connection number” on the internet). As the DNS is so important, it is always run on two servers: the primary name server and the secondary name server.

You should not change the addresses of the pre-set servers DNS 1 and DNS 2.

WLAN settings

The IP address can be adapted to the following scenarios using the option fields:

- WLAN mode: Out
  The IP gateway is connected to a router via the Ethernet port.
  The app and the IP gateway communicate via the WLAN network of the router.

- WLAN mode: Client
  The IP gateway is connected to the WLAN network of the router.
  The app and the IP gateway communicate via the WLAN network of the router.

- WLAN mode: Hotspot
  If a router is not available, communication can run directly through the IP gateway. To do this, HOT SPOT must be selected in the settings of the WLAN mode. The app must be in the WLAN network which is being made available through the IP gateway.

  The app and the IP gateway communicate via the WLAN network of the IP gateway. Communication is only possible if the devices are in the same network.

User rights / pairing

Using the Building Skin Control app (BSC app), Schüco units can be operated by means of a smartphone. A pairing process with the respective gateway is essential in order to protect the Schüco Building Skin Control system from unauthorised access attempts via the gateway and to determine the credentials of the users. The pairing process is launched via the app.

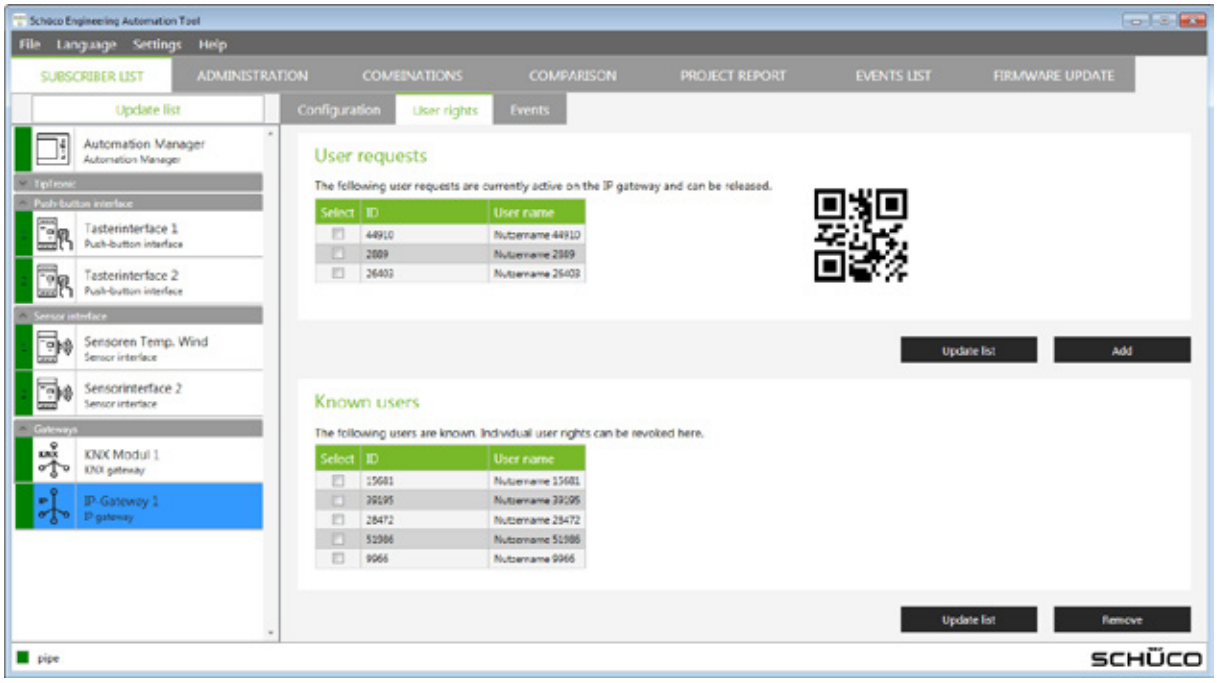
The Schüco BSC app is available on the App Store for direct installation on your iPhone, iPad or iPod Touch.

1. Open the Schüco BSC app on your smartphone.
2. Connect your smartphone to the IP gateway or router via WLAN.Make your smartphone visible to the IP gateway.
3. To do this, select the symbol “[+]” under “Settings” in the BSC app.
4. The serial number of the device must be entered in the window which opens.
   The number can either be entered manually or by scanning the QR code on the front cover of the device.
   The app has an integrated QR code scanner for this.
5. Select “Secure” in the BSC app.

» A list with all the IP gateways that can be found in the same local network as the BSC app are shown.
   You only need to make your smartphone visible once to be able to operate all accessible units in this network.

6. Press the info button “(i)” and then “pair”.

» The “New app token request” pop-up window appears in the Automation Engineering Tool software.
   By clicking “Yes”, you can switch directly to the “User rights” tab of the IP gateway.



7. Using the check box, you can select which user requests are to be released.
8. Click “Add”.

» The selected user requests are made known to the Automation Manager.

» The “Transfer complete” pop-up window signals the end of the pairing.

9. In the pop-up window, click “OK”.

» The devices are now connected to one another.
Should the “Request expired” pop-up window appear, the period between the request from the smartphone and the release from the Automation Engineering Tool software has expired.
Start a new request.

You can withdraw operating rights for individual users again by means of the checkbox under “Known users”.

15.6 BACnet gateway

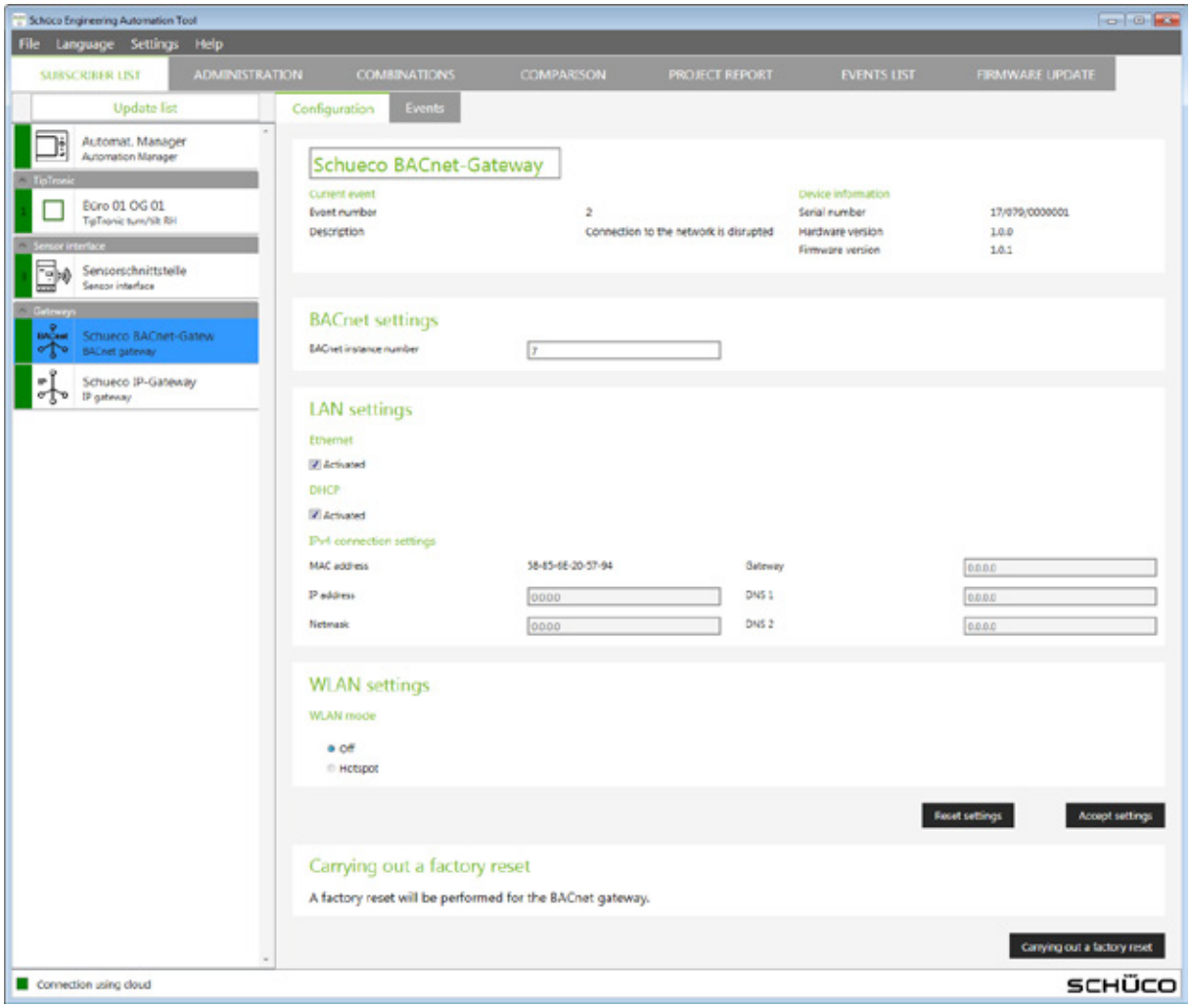
The BACnet gateway allows Schüco units to be controlled and regulated on a central BACnet building management system. Refer to the “Schüco BACnet gateway” instructions for details on its functions.

In addition to the Ethernet connection to the BACnet, the gateway also has a connection for a WLAN antenna. The WLAN interface allows the system to be accessed (remotely) using the Automation Engineering Tool software.

Configuration

1. Select the BACnet gateway from the subscriber list.

» The selected unit is highlighted in blue.
In the work space, you can now change the settings for the BACnet gateway.

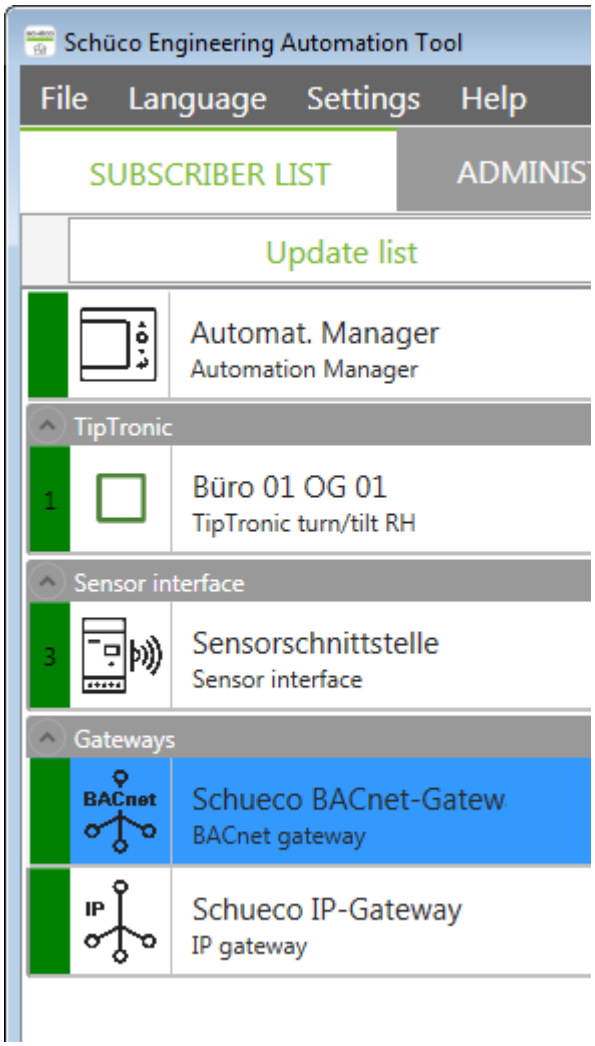


2. Enter a name into the entry field of the gateway.
3. Under “BACnet settings”, enter an instance number for unique identification of the gateway.
   A value between 0 and 4194302 must be selected for the instance number.
4. Make the “LAN settings”.
   The “Ethernet” and “DHCP” check box are activated as standard, as this is the standard connection to the BACnet. Schüco recommends keeping these settings.
   If you deactivate “DHCP”, the addresses must be entered in the subsequent entry fields (see “IP gateway” for explanations of the addresses).
5. Make the “WLAN settings” (see “WLAN settings” below).
6. Click “Apply settings”.

» The data is transferred to the BACnet gateway.
The “Transfer complete” pop-up window appears.

WLAN settings

If the BACnet gateway is integrated via the WLAN network, in order to carry out updates for subscribers for example, the hotspot function must be activated in the settings. This is deactivated by default.



In this mode, the BACnet gateway creates a network and transmits the SSID. The following values are stored as default:

- SSID: Schueco BACnet gateway
- WPA2 key: secretToChange

For security reasons, these settings should be changed immediately.

Once you have configured the settings, the computer can be connected to the BACnet gateway hotspot. Siehe Kapitel “5.2 Connecting a gateway” on page 11.

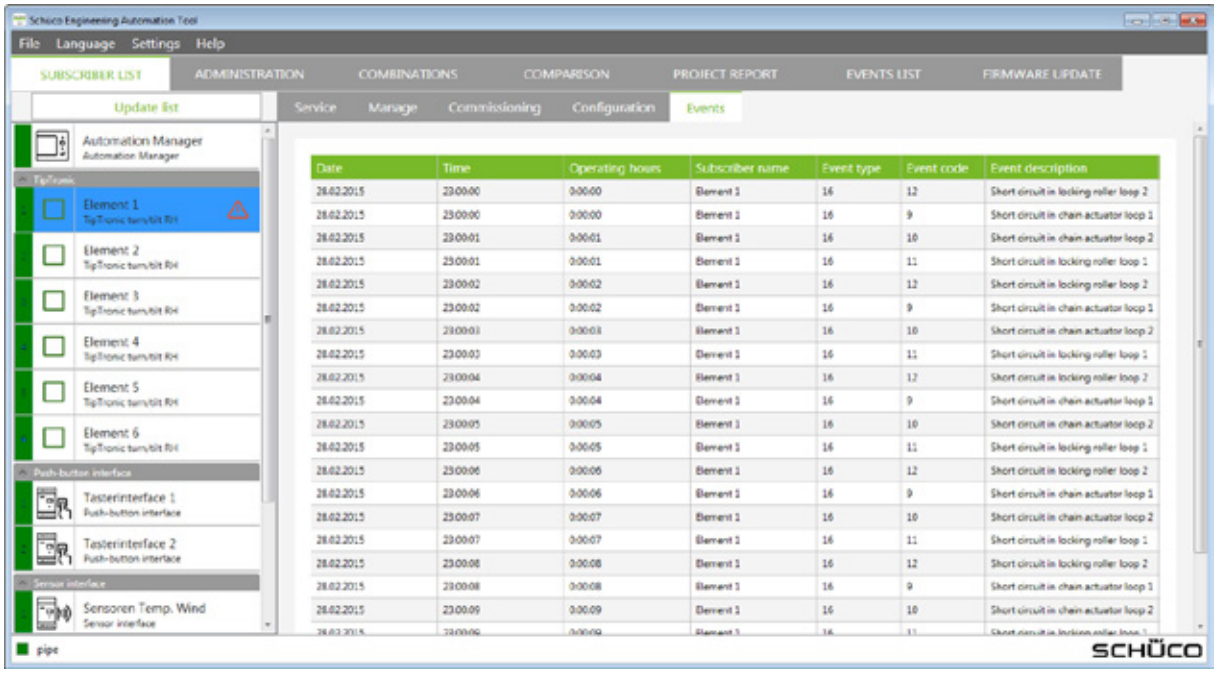
15.7 Events tab

Events on the selected unit are shown under this menu item. The events are displayed with an event code and time stamp and sorted into chronological order. You can identify whether a current event is connected to the unit from the red triangle with an exclamation mark next to the unit name.

16 Events

Noteworthy occurrences are marked as events and stored in the event memory.

16.1 Calling up the events list and structure of events list



The events list for a unit is called up by selecting the unit in the subscriber list and the “Events” tab.

The full events list for all units is called up by selecting the “Events list” main menu item.

In the header of the events list, you can sort the list by clicking on the column header. Click on it again to choose between ascending and descending order.

You can update, save or delete events by clicking on the corresponding button in the footer.

To save the events, process as follows:
1. Click “Events list” → “Update”.
2. Click “Save”.
3. In the dialog box, select the storage location and click “Save”.

» The events list is saved as a csv file (comma-separated values). This format can be displayed and processed by many programs (e.g. Excel).

INFORMATION

The events list is not updated automatically. The list must be updated manually.

16.2 Event code

Each event is registered with an event code which comprises the event type (which device/unit is affected) and the event number (which detailed event is present).
Both consist of a maximum of 3 characters.

Event code	Event type	Event number
001 163	001 = Automation Manager event	163 = Dip in power supply

The following tables list all event types and event numbers.

16.3 Event types

The following tables list the event types in ascending order. From these tables, you can use the event/unit affected by the event for an error analysis. You can then find out which detailed event is occurring for this device/unit from the tables in section 15.4.

16.3.1 General event types

Event type	Meaning
000	No event type
001	Automation Manager event
002	Sensor interface event
003	IP / BACnet gateway event
016	TipTronic single control unit event
017	TipTronic master/slave connection event
018	TipTronic slave control unit in master/slave connection event
019	Reserved for TipTronic SimplySmart internal event
032	ASE 60/80 TipTronic main control unit eventt
033 - 038	ASE 60/80 TipTronic vent control unit event
041	DriveTec control unit event
042 - 047	DriveTec drive event

16.3.2 Device bus event types

Event type	Meaning
049	Automation Manager event
050	Push-button interface event 1
051	Push-button interface event 2
052	Push-button interface event 3
053	Push-button interface event 4
054	Sensor interface event 1
055	Sensor interface event 2
056	Sensor interface event 3
057	Sensor interface event 4
058	KNX gateway event
059	BACnet gateway event
060	IP gateway event
255	Invalid KNX gateway status

16.3.3 Unit bus event types

Event type	Meaning	Event type	Meaning
080	Unit event 1	112	New unit event 1
081	Unit event 2	113	New unit event 2
082	Unit event 3	114	New unit event 3
083	Unit event 4	115	New unit event 4
084	Unit event 5	116	New unit event 5
085	Unit event 6	117	New unit event 6
086	Unit event 7	118	New unit event 7
087	Unit event 8	119	New unit event 8
088	Unit event 9	120	New unit event 9
089	Unit event 10	121	New unit event 10
090	Unit event 11	122	New unit event 11
091	Unit event 12	123	New unit event 12
092	Unit event 13	124	New unit event 13
093	Unit event 14	125	New unit event 14
094	Unit event 15	126	New unit event 15
095	Unit event 16	127	New unit event 16

096	Unit event 17	128	New unit event 17
097	Unit event 18	129	New unit event 18
098	Unit event 19	130	New unit event 19
099	Unit event 20	131	New unit event 20
100	Unit event 21	132	New unit event 21
101	Unit event 22	133	New unit event 22
102	Unit event 23	134	New unit event 23
103	Unit event 24	135	New unit event 24
104	Unit event 25	136	New unit event 25
105	Unit event 26	137	New unit event 26
106	Unit event 27	138	New unit event 27
107	Unit event 28	139	New unit event 28
108	Unit event 29	140	New unit event 29
109	Unit event 30	141	New unit event 30
111	Default unit event		

16.4 Event number

16.4.1 Automation Manager events (event type 001)

Event number	Meaning	Solution
000	No error	
001	ROM test failed	● Restart the device by disconnecting the operating voltage ● If this does not help, replace the device
002	EEPROM test failed	
003	RAM test failed	
004	Flash deletion error in combined segment	● Restart the device by disconnecting the operating voltage ● Carry out a factory reset
005	Flash programming error in combined segment	
006	Flash deletion error in bus topology segment	● Restart the device by disconnecting the operating voltage ● Carry out a factory reset
007	Flash programming error in bus topology segment	
161	CRC error in combined segment	● Recreate existing combinations in the system
162	CRC error in bus topology segment	● Recreate the order of units
163	Dip in power supply	● Check that the power pack is providing an adequate power supply (24 V DC) ● Check that the terminals are correctly connected to the modules on the top hat rails
164	Watchdog error	● Restart the device by disconnecting the operating voltage ● If this does not help, replace the device
165	CRC and segment ID error in error memory segment	● Delete the error memory of the Automation Manager

16.4.2 Sensor interface events (event type 002)

Event number	Meaning	Solution
000	No error	
001	ROM test failed	● Replace sensor interface
002	EEPROM test failed	
003	RAM test failed	
004	Low voltage (supply voltage of the device below 19.2 V)	● Check that the power pack is providing an adequate power supply (24 V DC) ● Check that the terminals are correctly connected to the modules on the top hat rails

005	Overvoltage (supply voltage of the device over 31.2 V)	● Check whether a Schüco power supply is connected ● Reduce the output voltage of the power supply
006	Short circuit - input 1	● Check terminals and cables
007	Short circuit - input 2	
008	Short circuit - input 3	
009	Short circuit - input 4	
010	Cable break - input 1	
011	Cable break - input 2	
012	Cable break - input 3	
013	Cable break - input 4	
014	Excess current for the sensor supply (maximum current carrying capacity of the interface: 100 mA)	● Check terminals and cables ● Disconnect sensors ● Check current consumption of sensors

16.4.3 IP/BACnet gateway events (event type 003)

Event number	Meaning	Solution
000	No error	
001	Connection to the cloud lost	● Check router and its internet connection
002	Connection to the network disrupted	● Check ethernet or WLAN connection ● Check router
004	Update complete	–
005	Update unsuccessful	● Reselect and start update

16.4.4 TipTronic SimplySmart events (event type 016)

Event number	Meaning	Solution
000	No error	
001	ROM test failed	● Replace control unit
002	EEPROM test failed	
003	RAM test failed	
004	Fault during internal µC test	
005	TipTronic magnet fault	● Install TipTronic magnet ● Install in the centre at the same height as the control unit

TipTronic SimplySmart events (continued)

Event number	Meaning	Solution
006	Low voltage (power supply too low)	● Check whether a Schüco power supply is connected ● Check the terminals and cables
007	Overvoltage (supply voltage too high, over 32 V)	● Check whether a Schüco power supply is connected ● Reduce the output voltage of the power supply
008	Polarity of supply voltage reversed	● Correct polarity of the supply voltage
009	Short circuit in chain actuator loop 1	● Replace the actuator in loop 1
010	Short circuit in chain actuator loop 2	● Replace the actuator in loop 2
011	Short circuit in locking roller loop 1	● Replace the locking roller(s) in loop 1
012	Short circuit in locking roller loop 2	● Replace the locking roller(s) in loop 2
013	Short circuit in finger lock	● Replace finger lock
014	Excess current in chain actuators	● Check fitting for mechanical stiffness ● Adjust fitting
015	Failure of Mosfet	● Replace control unit ● Check chain actuators
017	No speed control signal from chain actuator in loop 1	● Test/re-insert piercing contacts ● Check wires ● Replace chain actuator in loop 1 if necessary
018	No speed control signal from chain actuator in loop 2	● Test/re-insert piercing contacts ● Check wires ● Replace chain actuator in loop 2 if necessary
019	Contacting problem on chain actuator in loop 1	● Test/re-insert piercing contacts ● Check wires
020	Contacting problem on chain actuator in loop 2	
021	Monitoring of chain actuator synchronisation	● When monitoring the synchronisation of the two actuator loops, too great a difference in position has resulted ● Replace chain actuators ● Use chain actuators with a similar speed in a unit

Loop 1 = Control unit and operating unit connection on the same side
Loop 2 = Control unit opposite the operating unit connection

TipTronic SimplySmart events (continued)

Event number	Meaning	Solution
022	Sensor strip short circuit	● Check the wiring in the cable link connector ● Check the plug connector on the sensor strip
023	Sensor strip disconnection	
024	Sensor strip status not permissible	
025	Permissible power-on time exceeded	● Wait for five minutes
026	Cancel after 10 attempts to close	● Check for a jam (object, sensor strip etc.) ● Check fitting for mechanical stiffness ● Adjust fitting ● Movement to the “CLOSED” end position in emergency closing (dead-man) operation mode
027	Small chain actuator on the SHEVS control unit	● Replace the actuator and program the window again
028	Speed not valid	● Check cable routing ● If necessary, replace chain actuator
029	SHEVS window in commissioning	● Commission the windows
030	Cancel after max. closing attempts	● Check for a jam (object, sensor strip etc.) ● Check fitting for mechanical stiffness ● Adjust fitting ● Movement to the “CLOSED” end position in emergency closing (dead-man) operation mode
031	Cancel after max. closing attempts - acknowledgement required	● Acknowledge
032	Number of locking rollers in loop 1 not valid	● Check piercing contacts ● Check function of all locking rollers ● If necessary, replace locking rollers
033	Number of locking rollers in loop 2 not valid	
034	Contact problem for finger lock	● Check piercing contacts ● Check function of the finger lock ● If necessary, replace finger lock
035	Excess current in chain actuators for close direction	● Test/re-insert piercing contacts ● Check wires
036	Excess current in chain actuators for open direction	
037	Short circuit in safety module	● Check safety module cabling ● Check safety module plug connector ● Replace the safety module
038	Circuit break in safety module	
039	Security sensor Test failed	● Check sensor field ● Avoid reflections ● Reset sensor ● Clean the laser window

Loop 1 = Control unit and operating unit connection on the same side
Loop 2 = Control unit opposite the operating unit connection

16.4.5 TipTronic SimplySmart master-slave events (event type 017)

Event number	Meaning	Solution
000	No error	
001	Master-slave communication problem	● Check cabling between master and slave ● Turn power supply off and on
002	Monitoring of master-slave synchronisation	● Check fittings for mechanical stiffness
003	Firmware versions incompatible	● Same firmware version used in master control unit and slave control unit

16.4.6 System events (event types 049-255):

Event number	Meaning	Solution
000	No error	
016	Command currently invalid	● Check whether superordinate commands (disable commands) are in place ● Wind or rain sensor
017	Timeout in receiving	● Check whether the faulty subscriber is connected to the communication bus (unit bus or device bus)
018	Subscriber is not responding	
019	Invalid parameter	● Check whether the firmware versions of the system and unit are compatible
129	Checksum fault	● The transmission process was not completed. Run same command/ communication again ● Transfer error, bus cable faulty
130	Direction incorrect	● Check whether there is more than 1 Automation Manager present in the system ● Check whether a computer with the “Automation Engineering Tool” software is connected to the unit bus
131	Bus address incorrect	● Check addresses of the respective subscribers ● Reassign addresses if necessary
132	Telegram length invalid	● Check the number of units in the unit list against the actual number of units physically present
133	Unknown unit found	● Update unit bus and device bus

16.4.7 Events for main control unit of ASE 60/80 TipTronic (event type 032)

Event number	Meaning	Solution
000	No error	
001	Connection error at dead man switch 1	● Check cables between main control unit and wall control switch. ● Check whether the resistance of 270 ohms has been correctly installed.
002	Connection error at dead man switch 2	
003	Trigger of security sensor to connection X13	● Check sensor field ● Adjust sensor
004	Trigger of security sensor to connection X14	
005	Trigger of security sensor to connection X13 slave main control unit	
006	Trigger of security sensor to connection X14 slave main control unit	
007	Testing of incorrect security sensor to connection X13	● Check DIP switch setting sensor ● Check connection between main control unit, sensor connection box and sensor ● Check sensor field
008	Testing of incorrect security sensor to connection X14	
009	Testing of incorrect security sensor to connection X13 slave main control unit	
010	Testing of incorrect security sensor to connection X14 slave main control unit	
011	Low voltage error	● Check whether the cable length and cross section are correctly dimensioned ● Check that the power supply is correctly dimensioned. ● Check the output voltage of the power supply
012	Overvoltage error	
013	Communication error, main and vent control unit	● Check feed-in adapter ● Check current collector ● Check connection of the vent control unit ● Check address of vent control unit ● Check slave DIP switch position and wiring
014	Self-test error 1	● Restart the system ● If it happens again: replace main control unit
015	Self-test error 2	
016	Self-test error 3	
017	Configuration is incorrect	
018	Reference cycle required	● Close installation

Events for main control unit of ASE 60/80 TipTronic (continued)

Event number	Meaning	Solution
019	Communication error Encryption module 1	● If only this error occurs: ● Check wiring between vent control unit and lifting drive ● Replace lifting drive with encryption drive
020	Communication error Encryption module 2	
021	Communication error Encryption module 3	
022	Communication error Encryption module 4	
023	Communication error Encryption module 5	
024	Communication error Encryption module 6	
025	Communication error, main and vent control unit	● See event code 13
026		
027		

16.4.8 Events for vent control unit of ASE 60/80 TipTronic (event type 033-038)

Event number	Meaning	Solution
000	No error	
001	Sliding drive connection error	● Check cables between vent control unit and sliding unit ● Replace sliding drive
002	Lifting drive 1 connection error	● Check cables between vent control unit and lifting drive ● Check mechanical range of movement and position of the lifting drive ● Replace lifting drive
003	Lifting drive 2 connection error	
004	Operating unit connection error	● Check cables between vent control unit and operating unit ● Replace operating unit
005	Short circuit on the sliding drive	● Check cables between vent control unit and sliding drive ● Replace sliding drive
006	Triggered by jam	● Check for a jam (object etc.) ● Check fitting for mechanical stiffness ● Remove dirt from runners
007	Triggered by overcurrent	
008	Trigger of security sensor to connection X22	● Check for a jam (object in movement path, sensor strip activated or damaged etc.)
009	Trigger of security sensor to connection X23	

Events for vent control unit of ASE 60/80 TipTronic (event type 033-038)

(Continued)

Event number	Meaning	Solution
010	Lifting drive 1 has not reached the open position	● Check cables between vent control unit and lifting drive ● Check mechanical range of movement and position of the lifting drive ● Replace lifting drive
011	Lifting drive 2 has not reached the open position	
012	Encoder faulty	● Check cables between vent control unit and sliding drive ● Replace sliding drive
013	Motor driver faulty	● Restart system ● Replace sliding drive ● Replace vent control unit
014	Magnet value not valid	● Check magnet seal is installed correctly ● Carry out commissioning again ● Replace vent control unit
015	Maximum run time of sliding drive exceeded	● Wait a few minutes ● Generate movement command again
016	Maximum run time of lifting drive exceeded	
017	Overvoltage error	● Check whether the cable length and cross section are correctly dimensioned ● Check whether the power supply is correctly dimensioned ● Reduce output voltage at the power supply
018	Magnetic sensor faulty	● Restart system ● Replace vent control unit
019	Excess temperature	● Wait a few minutes ● Check environmental conditions of the vent control unit
020	Self-test error 1	● Restart system ● Replace vent control unit
021	Self-test error 2	
022	Self-test error 3	
023	Self-test error 4	

Events for vent control unit of ASE 60/80 TipTronic (event type 033-038)

(Continued)

Event number	Meaning	Solution
024	Low voltage error	● Check whether the cable length and cross section are correctly dimensioned ● Check whether the power supply is correctly dimensioned ● Reduce output voltage at the power supply
025	Sensor strip connection X22 connection error	● Check connection between sensor strip and vent control unit ● Check connection plug at the sensor strip ● Check sensor strip for mechanical damage
026	Sensor strip connection X23 connection error	
027	Encryption module connection error	● If only this error occurs: ● check wiring between vent control unit and lifting drive ● Replace lifting drive with encryption drive

16.4.9 DriveTec control unit events (event type 041)

Event number	Meaning	Solution
000	No error	
001	ROM test failed	● Replace control unit
002	EEPROM test failed	
003	RAM test failed	
004	Fault during internal µC test	
005	Low voltage (power supply too low, below 19.2 V)	● Check whether the cable length and cross section are correctly dimensioned ● Check that the power supply is correctly dimensioned. ● Check the output voltage of the power supply ● Klemmen und Leitungen prüfen
006	Overvoltage (supply voltage too high, over 32 V)	
007	Polarity of supply voltage reversed	● Correct polarity of the supply voltage
008	Overload of the drive circuit	● Check cable to drive ● Replace the actuator
009	Incompatible drives detected	● Check drive types
010	Invalid position detected	● Carry out zero point search
011	Drive 1 communication error	● Check communication with actuator 1

DriveTec control unit events (event type 041) (Continued)

Event number	Meaning	Solution
012	Drive 2 communication error	● Check communication with actuator 2
013	Drive 3 communication error	● Check communication with actuator 3
014	Drive 4 communication error	● Check communication with actuator 4
015	Locking device 1 communication error	● Check communication with locking actuator 1
016	Locking device 2 communication error	● Check communication with locking actuator 2
017	Monitoring of chain actuator synchronisation	● When monitoring the synchronisation of the two actuator loops, too great a difference in position has resulted ● Load chain actuators evenlyCarry out zero point search ● Replace chain actuators ● Use chain actuators with a similar speed in a unit
018	Cancel after MAX number of attempts to close	● Check fitting for mechanical stiffness ● Moves to the “CLOSED” end position in deadman operation
022	Connection error at dead man switch	● Check the connecting cable of the wall operating switch ● Check if the additional resistor (270 ohm) is correctly connected to the wall operating switch
255	Invalid status	● Reserved for KNX, not relevant for device or unit bus.

16.4.10 DriveTec drive events (event type 042 - 047)

Event number	Meaning	Solution
000	No error	
001	ROM test failed	● Restore actuator to factory settings ● Exchange the actuator
002	Register error	
003	RAM test failed	
004	Fault during internal µC test	
005	Internal fault	
006	Low voltage	
007	Overvoltage	
008	Current measurement plausibility error	
009	Voltage measurement plausibility error	
010	AC/DC-converter plausibility error	
011	Motor bridge plausibility error	
012	EEPROM overflow	
013	EEPROM CRC error	
255	Invalid status	● Reserved for KNX, not relevant for device or unit bus.

17 Decommissioning and disposal

The materials used can be recycled. Observe the environmental requirements with regard to recycling, re-use and disposal of operating materials and components in accordance with the local, country-specific and international current technical regulations and official regulations. Make a contribution towards protecting our environment and dispose of the device at a collection point.

18 Service and support

At Schüco, a high level of customer satisfaction is our priority. If you require further information or encounter problems not dealt with in detail in this document, you can request the requisite information from the Smart Building Technical Support team.

You can reach your contact partners on the service phone numbers below:

Hotline – Metal systems
Please contact your local branch.

Technical Support – Smart Building

Monday – Thursday:	8.00 a.m. – 4.30 p.m.
Friday:	8.00 a.m. – 3.00 p.m.
Tel.:	+49 (0) 521 - 783 665
E-mail:	Support_Automation@schueco.com

en Original instructions

The export, fabrication and assembling of Schüco products within the scope of building projects in the USA are subject to specific regulations (product testing/certification) which must be coordinated with Schüco USA LLLP prior to importing the products into the USA. If you have any questions on this matter, please contact Schüco USA LLLP, e-mail: alutechsupport@schuco-usa.com. Schüco International KG assumes no liability for damages which result from the use / fabrication / assembling of products which have not been approved by Schüco for the US market or which are fabricated and assembled there by contractors who are not sufficiently qualified to work with Schüco products.

Please note the special instructions in the general section of the manual for the fabrication and assembly of Schüco products for building projects in the USA.

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