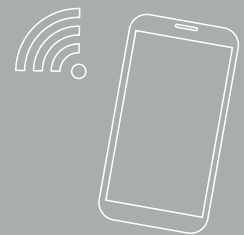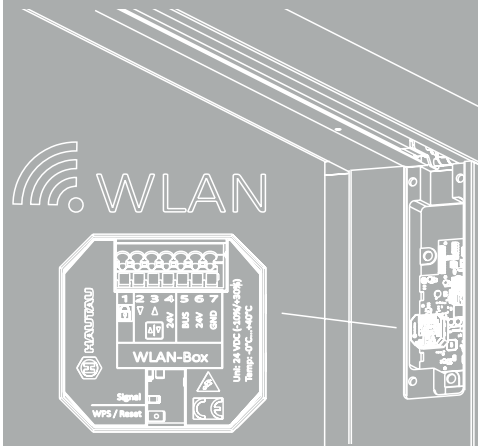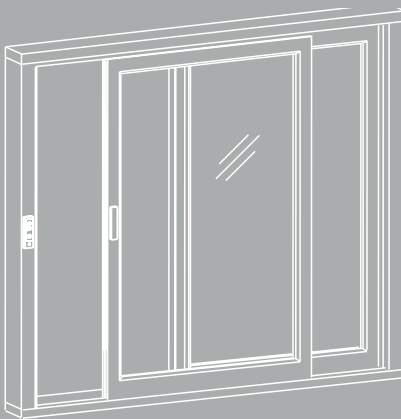# HS Comfort Drive

LIFT AND SLIDE FITTINGS/WINDOW AUTOMATION

MANUAL

Indoor operation with smartphone,
HS Comfort Drive, 24 V DC
wood/wood-aluminium/PVC,
Scheme A/C

Used **exclusively** for specialist companies.

Copy of the original instructions

WOOD

PVC

ALUMINIUM

Contents

⚠ Important safety instructions

General information

⚠ **WARNING**
It is important to observe the following instructions to ensure safety for everyone. Incorrect installation may lead to serious injury or even death.

Manufacturer's declaration/technical standard

The accessories contained in this document have been tested and manufactured in line with the applicable European directives. The applicable declaration of incorporation for the HS Comfort Drive is available for inspection. You may only operate the devices if there is a declaration of conformity for the overall system. The actuator and its accessories meet the latest technical standards. This refers to performance, materials, mode of operation and safe operation.

Personnel

Only a **qualified electrician** (certified to DIN VDE 1000-10, for example) may connect the system to the mains. The actuator must be installed, serviced and repaired by personnel trained to current standards and based on the recognised code of practice.

Also observe the important safety instructions in the manual for the HS Comfort Drive.

WiFi Box

Life-threatening hazard posed by electric shock.

The WiFi Box is suitable for actuating 230 V products with a HAUTAU bus interface. There is a risk of fatal injury from touching live parts.

During maintenance work on systems with 230 V, disconnect them completely from the power supply using a cut-off device and ensure they cannot be unintentionally switched back on. The cut-off device must be clearly labelled.

Risk of crushing and pinching

Secure crushing and shearing points between window sashes and frames, light domes, and upstands up to a height of 2.5 m with devices that halt movement when touched or interrupted by a person.

⚠️ Important safety instructions (contd.)

ConfigTool app

Safety instructions

You must observe the safety instructions for the corresponding device families. See the relevant installation instructions at www.hautau.de/en/

Connection and installation conditions

Before you put the device into operation, take into account the connection and installation conditions in the manual for the device series concerned.

Operation

The software is designed for remote control of actuators among other things. Do not reach into the window rebate and the active actuator during operation. There is a risk of **crushing** and **pinching**.

Intended use

The devices and the HAUTAU app must be used for their intended use only. HAUTAU assumes no liability for any injuries or damage to property if there is failure to comply with this requirement.

Manual

Read and observe the information in this manual and follow instructions in the specified order. You must store this manual away ready for use/maintenance at a later stage.

Maintenance work

The power supply to the device must be disconnected at all poles when cleaning or performing other maintenance work.

Warranty

HAUTAU assumes no liability for any damages caused by the installation and use of the software. Always use the most recent version to use all the software's functions and ensure maximum safety. No support is provided and no liability is assumed for older versions. After initial operation, the factory access codes for the WiFi Box and the LAN module must be changed to a more secure, customised password, using upper and lower case letters with numbers and special characters, for example. A Wi-Fi network should only be used with password protection. Liability is generally not assumed for damages and manipulation due to integration in open networks and/or use without passwords, or use of weak passwords.

Warranty

HAUTAU's General Terms and Conditions of Business apply to the accessories (online: www.hautau.de/en/).

Disposal

The crossed-out wheeled bin symbol indicates that you must not dispose of this electrical appliance or electronic device in the household waste at the end of its service life.

You can return it to free collection points for old electrical appliances in your area or to other centres where they accept old appliances for recycling.

Contact your local council for addresses of collection points and centres. If the electrical appliance or electronic device contains personal data, you yourself are responsible for erasing data before you return it.

You will find more information online at www.weeelogic.com or other websites on the WEEE Directive.

Other applicable documents

This document comprises additional instructions for the following manuals:

- Installation instructions for HS Comfort Drive, 24 V DC, wood/wood-aluminium, concealed, Scheme A
- Installation instructions for HS Comfort Drive, 24 V DC, wood/wood-aluminium, concealed, Scheme C
- Installation instructions for HS Comfort Drive, 24 V DC, wood/wood-aluminium/PVC, surface-mounted, Scheme A
- Installation instructions for HS Comfort Drive, 24 V DC, wood/wood-aluminium/PVC, surface-mounted, Scheme C
- Installation instructions for HS Comfort Drive, 24 V DC, indoor operation with control button

Explanation of terms

This manual describes a left-hand version (a sash opening to the right) as an example.
Any specifications for a right-hand configuration (a sash opening to the left) and for Schema C must
be adapted accordingly.

Measurements in mm. Diagrams without a scale are **not** necessarily to scale.

Intended use for the WiFi Box/ConfigTool app

If you wish to use a smartphone to control a HS Comfort Drive (lift and) slide system, the WiFi Box must be connected to the circuit board of the actuator concerned as shown in the circuit diagram. The WiFi Box is used to control products wirelessly with a HAUTAU bus interface using a WLAN radio signal. The system is controlled by mobile devices using a direct link to the WiFi Box. The optional HAUTAU ConfigTool is required to control and configure the products.
 The (lift and) slide system must be calibrated and functional as specified in the installation instructions for Scheme A or C. It must also be equipped with a control keypad or control button. It is not permitted to use the components and software for any purpose other than for anything other than an actuator an actuator.

Features

› For installation in a flush box or next to the circuit board on the HS Comfort Drive

› Power is supplied via the HAUTAU bus

› Control and configuration of the HS Comfort Drive using a smartphone/wireless local area network)
   with the followingoperating systems:

        - Android (Google Play Store)
        - Apple iOS (Apple App Store)
        - Windows (Windows Phone Apps in Microsoft Store)

› Secure data exchange using WPA encryption (Wi-Fi protected access)

› Log-in to routers supplied by client via WPS (Wi-Fi protected setup)

› Optical signal for feedback signals for operation and configuration

IMPORTANT NOTE:
**A factory reset and software reset of the HS Comfort Drive are <u>not</u> possible with a smartphone.
Such resets can only be performed with the standard control keypad or a control button/button box.**

Overview of WiFi Box

Connection for ...
1 - Locking device *
2 - Comfort keypad CLOSE *
3 - Comfort keypad OPEN *
4 - Output 24 V DC*
5 - HAUTAU bus
6 - Output 24 V DC (operating voltage)
7 - GND (operating voltage)

*) Do not use for HS Comfort Drive

WPS/Reset button

Green LED for feedback signals for operation/configuration
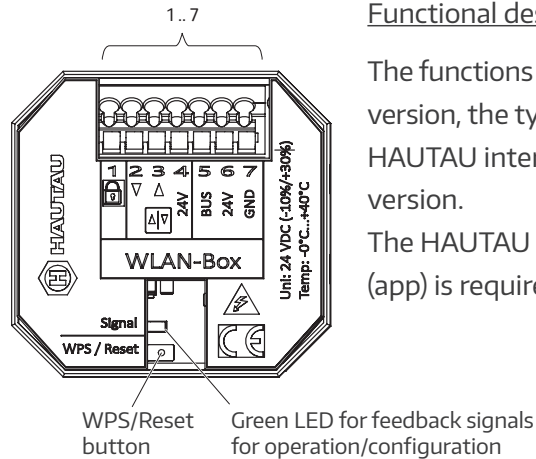
Functional description

The functions depend on the WiFi Box firmware version, the type of products used with the HAUTAU interface and the HAUTAU ConfigTool version.

The HAUTAU ConfigTool software application (app) is required to guarantee operation.

Installation of the WiFi Box

Installation in the frame next to the circuit board on the HS Comfort Drive
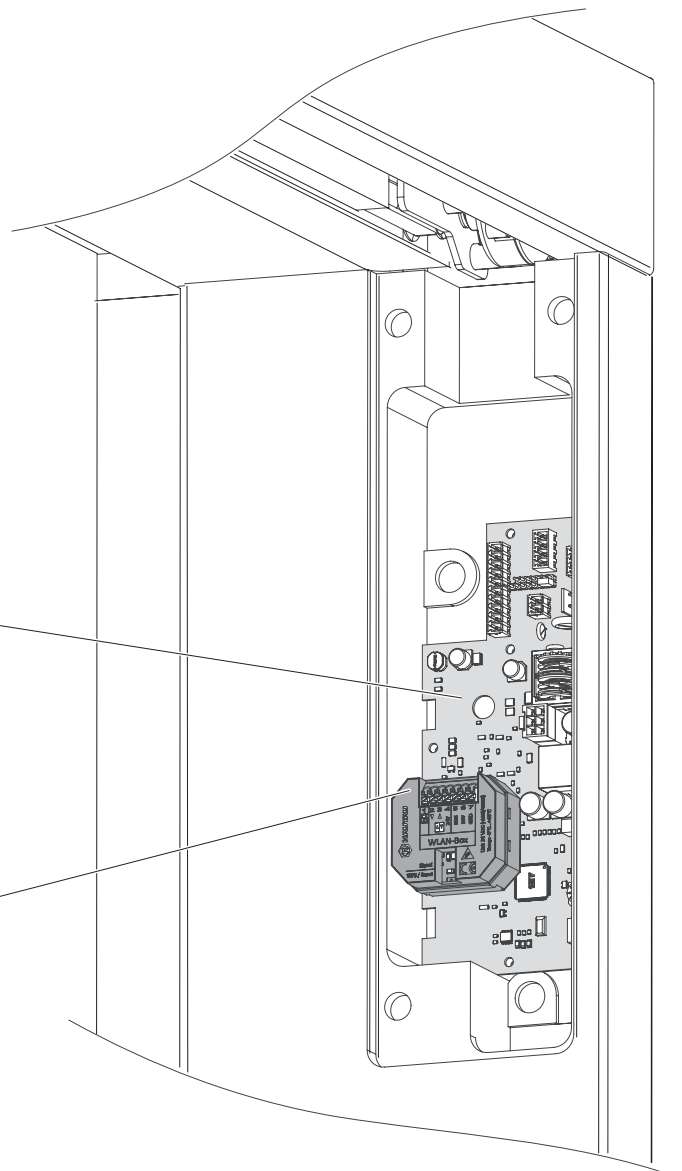
⚠ **WARNING**
Disconnect the power supply to the actuator while carrying out connection work.
Failure to do so could result in loss of life due to electric shock.
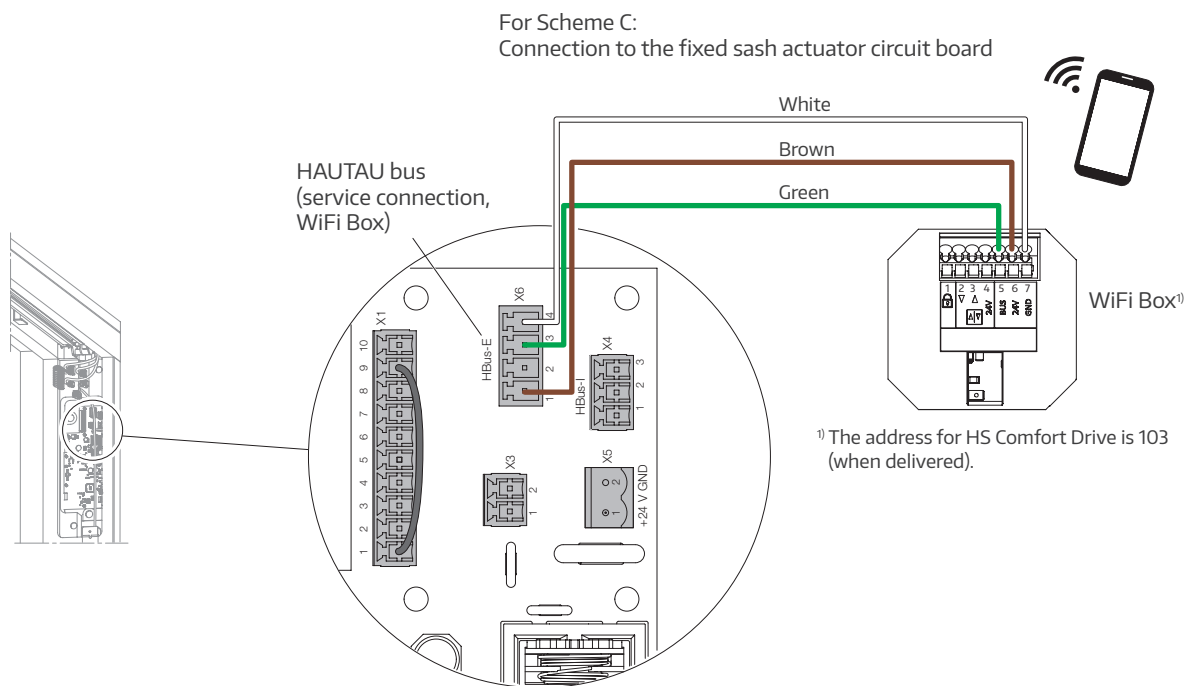
Shown example:
HS Comfort Drive, concealed;
relevant for surface-mounted version

Circuit board

Pre-assembled HS Comfort Drive WiFi Box in the lower section of the circuit board cut-out

Circuit diagram for WiFi Box

For Scheme C:
Connection to the fixed sash actuator circuit board

White

Brown

Green

HAUTAU bus
(service connection,
WiFi Box)

WiFi Box[1]

[1] The address for HS Comfort Drive is 103
(when delivered).

Set up software

Download the free HAUTAU ConfigTool app

... from Google Play Store (Android), Apple App Store (iOS) or
Windows Phone Apps Microsoft Store

... or from the HAUTAU website:
https://www.hautau.de/en/window-automation/smart-building-/-smart-home/service-and-apps

Apps

# Establishing the connection between a smartphone and the WiFi Box

IMPORTANT NOTE:
Prior to setting up and activating the WiFi Box with the ConfigTool, ensure the (lift and) slide system is calibrated and functional as per the installation instructions for Scheme A or C.
It must also be equipped with a control keypad or control button.

The WiFi Box must be installed ready for operation and connected to a 24 V DC power supply (HS Comfort Drive).
The search for new Wi-Fi networks needs to be enabled on the smartphone.
After a time ...

... the WiFi Box is detected with its name ...
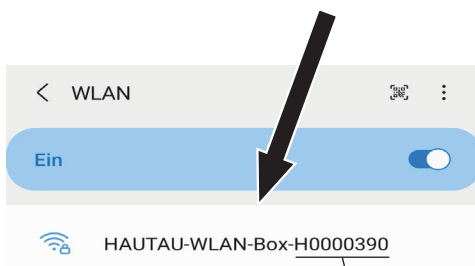
And the green LED will flash on the WiFi Box
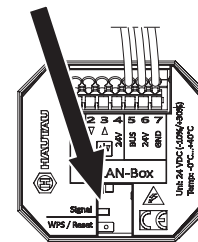
The WiFi Box name contains the Wi-Fi code for the initial connection, such as "H0000390". After successfully establishing a connection, change the Wi-Fi key using the HAUTAU ConfigTool app.
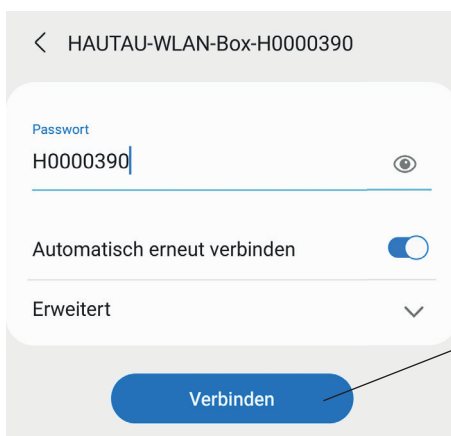
Press to maintain the Wi-Fi connection

Setting up HS Comfort Drive for the HAUTAU ConfigTool app

1

Launch ConfigTool app

2

Open Tools menu

Another actuator may have already been detected

3

Click on Find devices
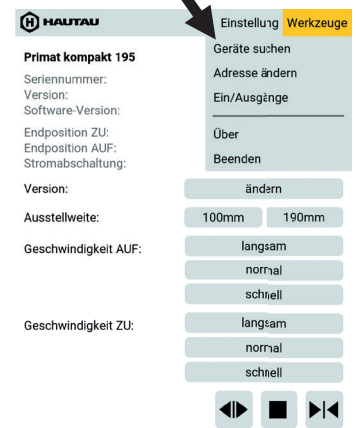
4

Launch device search

5

Accept detected device (HS Comfort Drive)

103 = address for HS Comfort Drive (when delivered).

6
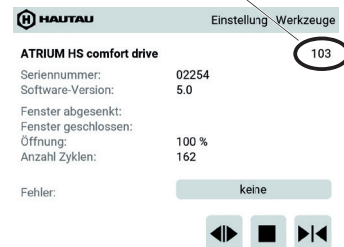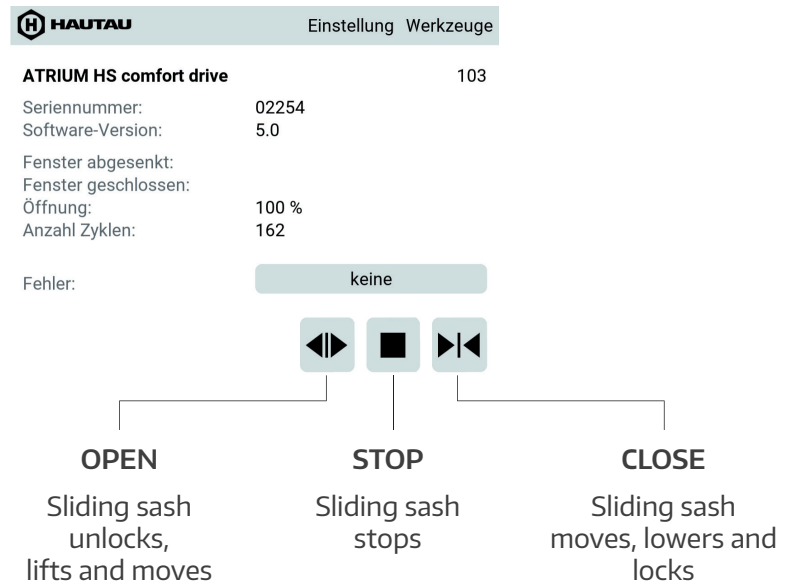
You can now operate the (lift and) slide panel.

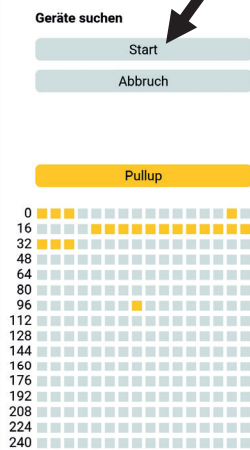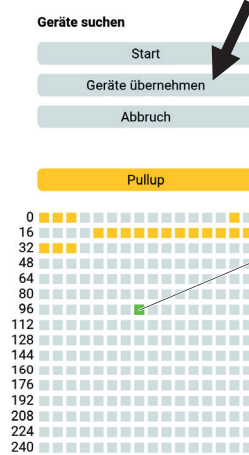# Operating HS Comfort Drive using a smartphone

Launch ConfigTool app

Select HS Comfort Drive device

ATRIUM HS comfort drive	103
Seriennummer:	02254
Software-Version:	5.0
Fenster abgesenkt:	
Fenster geschlossen:	
Öffnung:	100 %
Anzahl Zyklen:	162
Fehler:	keine

OPEN

Sliding sash
unlocks,
lifts and moves

STOP

Sliding sash
stops

CLOSE

Sliding sash
moves, lowers and
locks

The sliding sash can be operated in both directions after STOP has been pressed.

Changing the WiFi Box password

IMPORTANT NOTE:

For security reasons, the end user **must change** the WiFi Box password.

Hacker attacks pose a **risk of burglary** and a **threat to life**.

If the WiFi Box password is not changed, hackers can take control of the (lift and) slide panel. This can lead to unwanted movements of the sliding sash, making it easier to break in and thus resulting not only in potential theft but also posing a risk of injuries and death.

Changing the WiFi Box password (contd.)

1 → Open Settings menu

HAUTAU

ATRIUM HS comfort drive

Seriennummer:	022
Software-Version:	5.0

Fenster abgesenkt:
Fenster geschlossen:

Öffnung:	100
Anzahl Zyklen:	162

Fehler:

Einstellung Werkzeuge
Sprache
Ton ein
Rücksetzen

WLAN Box:
Finden ...
... oder Adresse
Name
Direkt / via Router
Eingänge

2 →

3

WLAN Box Verbindung

direkt	Wechseln

Netz-Name (SSID, 1-32 Zeichen):
HAUTAU-WLAN-Box-H0000390

Passwort (8-32 Zeichen):

Zeigen

versteckt: Ja **Nein**
WPS: Ja Nein

Abbruch

enter new password →

4
Accept password →

WLAN Box Verbindung

direkt	Wechseln

Netz-Name (SSID, 1-32 Zeichen):
HAUTAU-WLAN-Box-H0000390

Passwort (8-32 Zeichen):
****

Zeigen

versteckt: Ja **Nein**
WPS: Ja Nein

Übernehmen Abbruch

5
Password has been changed

HAUTAU Einstellung Werkzeuge

ATRIUM HS comfort drive ⚠ 103

Seriennummer:
Software-Version:

Fenster abgesenkt:
Fenster geschlossen:
Öffnung:
Anzahl Zyklen:

Fehler: -

◀▮▶ ▪ ▶▮◀

Connect smartphone to WiFi Box again:

‹ WLAN ▦ ⋮

Ein ⬤

📶 HAUTAU-WLAN-Box-H0000390

‹ HAUTAU-WLAN-Box-H0000390

Passwort
(unverändert) ⊘
Falsches Passwort

Automatisch erneut verbinden ⬤

Erweitert ⌄

Verbinden

enter new password →

‹ HAUTAU-WLAN-Box-H0000390

Passwort
•••••••• ⊘

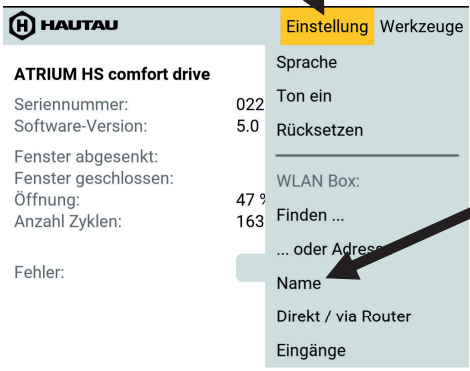Automatisch erneut verbinden ⬤

Erweitert ⌄

Verbinden

Press Connect →

The panel can now be operated

Changing the WiFi Box name

The WiFi Box name can be customised. However, this is not absolutely necessary.

1

Open Settings menu

ATRIUM HS comfort drive

		Einstellung	Werkzeuge
Seriennummer:	022	Sprache	
Software-Version:	5.0	Ton ein	
		Rücksetzen	
Fenster abgesenkt:			
Fenster geschlossen:		WLAN Box:	
Öffnung:	47 %	Finden ...	
Anzahl Zyklen:	163	... oder Adress	
Fehler:		Name	
		Direkt / via Router	
		Eingänge	

2

Select field with the old WiFi Box name

WLAN Box Name

HAUTAU-WLAN-Box-H0000390

4 bis 32 Zeichen, - A..Z a..z 0..9
1. Zeichen Buchstabe, letztes nicht -

Abbruch   OK

WLAN Box Name

Wintergarten

4 bis 32 Zeichen, - A..Z a..z 0..9
1. Zeichen Buchstabe, letztes nicht -

Abbruch   OK

3

Enter new name and press OK

WiFi Box optical signals and button functions

Signal **optical indicator and** WPS/Reset **button**		
Button	Signal	Position
-	LED flashes	WiFi Box in operation
Pressed briefly (< 1 s)	LED on	WPS log-on
Pressed for longer (> 1... 5 s)	LED flashes (after 2 s)	Wi-Fi settings reset to factory settings
Pressed for long time (> 5 s)	LED flashes quickly (after 5 s)	Complete reset to factory settings. Current configurations are deleted. Peripherals must be re-registered.

The WPS registration depends on the router used.
Please follow the instructions in the router description.

Customised use of the Wi-Fi Box

To clarify further options of using the Wi-Fi Box before implementing them, contact HAUTAU, Building Automation Department, HS Comfort Drive Group in the following cases:

› Multiple use of the Wi-Fi Box
› Use with a router
› Use of multiple doors
› Use via smart home network (Mediola, Somfy, etc.)
› Use via radio
... and other possible uses

Technical data for the Wi-Fi Box

Operational power supply	
Supply voltage	24 V DC (−10%/+30%)
Ripple	≤ 20% in relation to the nominal voltage
Wattage in transmission mode	about 1.5 W
Wattage in standby mode	about 1 W
Current draw in transmission mode	about 60 mA
Current draw in standby mode	about 40 mA

Comfort keypad output	
Voltage input	10 to 30 V DC
Current	1 mA
Fuse	No

Material and mechanical properties	
Dimensions: w x h x d (mm)	50 x 47 x 28
Plastic housing	
Colour	Grey
Halogen-free	Yes
Silicone-free	Yes
RoHS-compliant	Yes

Connection and operation	
Suitable for SHEV	No
Suitable for ventilation	Yes
Maintenance	Recommended yearly
Connection terminals	Spring clamp terminals 1.5 mm²

Indicators and operating controls	
Indicator for operation and configuration	Yes, yellow LED
Button for configuration	Yes, for reset and WPS registration

Wireless LAN	
Radio standard 802.11n/g/b	
Encryption	Yes, WPA
Range	Without interferences: about 10 m, depending on the building
Log-on per WPA	Yes
Password assignment	Yes, in ConfigTool

HAUTAU bus	
Cable length	Max. 300 m
Cable cross-section	0.14 ... 0.5 mm² (recommended: 0.25mm²)
Cable type	not shielded
Number of peripherals	31 per WiFi Box

Installation and environmental conditions	
Nominal temperature	20 °C
Ambient temp. range	0 °C to +40 °C
Installation conditions	Dry
Suitable for outdoor installation	No
Protection rating	IP20 (as per EN 60529)

Approvals and certificates	
CE-compliant	Yes, with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC
RoHS-compliant	Yes, with Directive 2011/65/EC
Protection class	Class III

Required accessories	
HAUTAU ConfigTool software application (app)	To parametrise the WiFi Box and for operation

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