

**WLAN Access-Point flush-mounted**

4582

**WLAN Access-Point flush-mounted, PoE**

4583

**Operating and assembly instructions****Safety instructions**

Electrical equipment may only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, safety and accident prevention regulations of the country.

Hazard due to electric shock. Disconnect before working on the device. Take into account all circuit breakers that supply dangerous voltages to the device.

Failure to comply with these instructions may result in damage to the device, fire, or other hazards.

These instructions are an integral component of the product and must be retained by the end user.

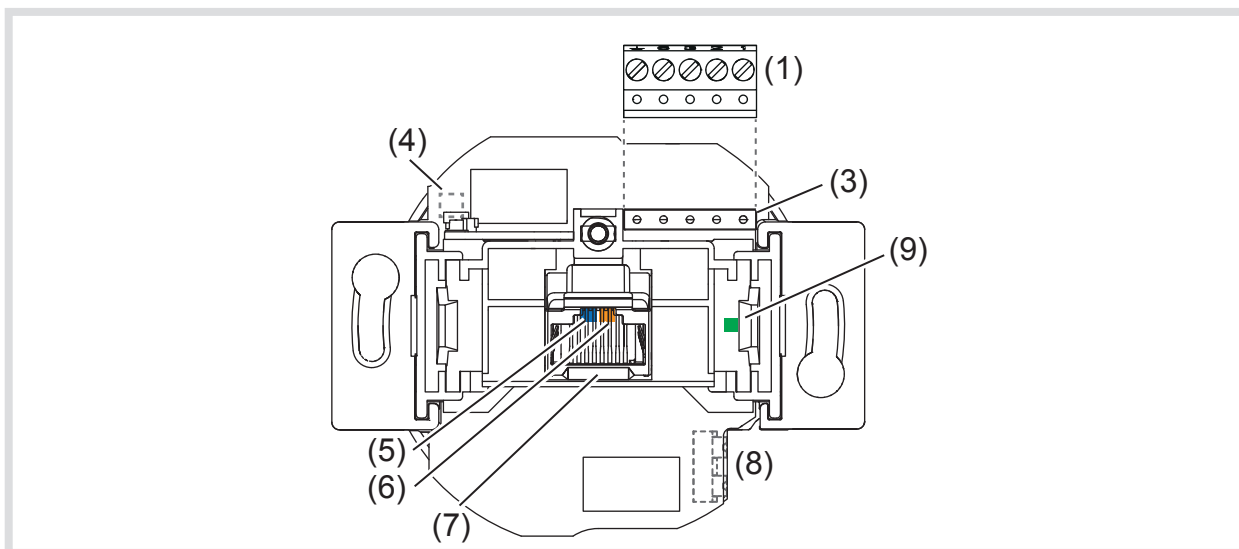
**Design and layout of the device**

Figure 1: Front view WLAN Access-Point

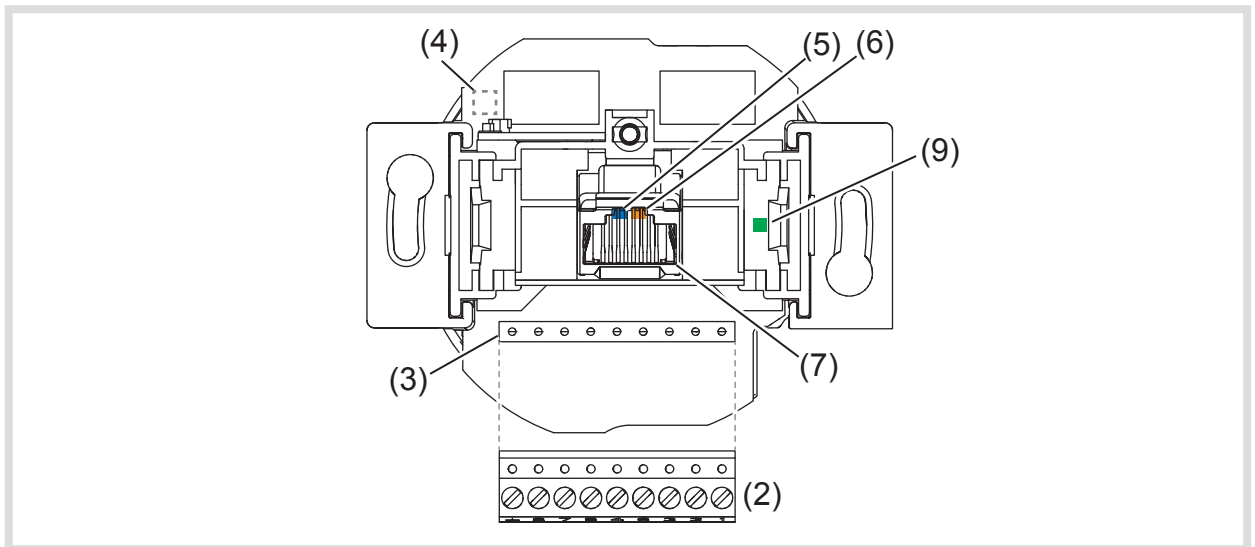


Figure 2: Front view WLAN Access-Point, PoE


- (1) 5pole terminal block
- (2) 9pole terminal block
- (3) Contact pins
- (4) Position reed contact for reset
- (5) blue LED (WLAN)
- (6) orange LED (LAN)
- (7) RJ45 jack
- (8) Mains voltage connection
- (9) green control LED for the network cable connected to terminal block (1, 2)

## Function

The WLAN Access-Point extends the possible uses of modern network technologies for mobile end devices with low power consumption and radio emission. Additional settings can limit the device from other Access-Points in order to prevent overcoupling of the WLAN areas and losses of the data rates.

This device can be used in three operating modes – namely as:

- Access-Point for wirelessly communicating devices
- Repeater for increasing the range in the WLAN network
- Client for connecting to devices that do not have their own WLAN adapter.

 Detailed information on configuration and settings are available for downloading at [www.berker.com](http://www.berker.com).

## Correct use

- only suitable for operation in indoor areas
- Installation into wall box according to DIN 49073

## Operation

### LED displays

Two coloured LEDs illuminate the RJ45 jack and indicate what status the network functions of the Access-Points are in.

Display	Status
blue LED (5) lights up permanently	WLAN is active.
blue LED (5) flashes	Reset starts. The device is restarted.
orange LED (6) lights up permanently	LAN is active, a connection is available.
orange LED (6) flashes	LAN is active, data transfer takes place. Or: Device is reset to factory settings.

Table 1: Displays on the status LEDs

### Restart device

If the device does not function properly, it might be necessary to restart the device.


- Keep a permanent magnet over the position of the reed contact (4) on the cover of the Access-Point for 2 ...4 seconds.

The reed contact on the Access-Point is triggered. The blue LED (5) flashes. Reset starts.

### Reset device to factory settings

- Keep a permanent magnet over the position of the reed contact (4) on the cover of the Access-Point for 5 ..10 seconds.

The reed contact on the Access-Point is triggered. The orange LED (6) flashes The device restarts and loads the factory settings.

-  If access to the Access-Point is no longer possible, please proceed according to the configuration instructions at [www.berker.com](http://www.berker.com).

## Information for electricians

### Installation and electrical connection



#### **DANGER!**

**Touching live parts can result in an electric shock.**

**An electric shock can be lethal.**

**Disconnect the connecting cables before working on the device and cover all live parts in the area!**

-  It is imperative to install the device at a height of 0.3 ... 1.1 m to ensure functional reliability.

## WLAN Access-Point (order no. 4582)

### Connect device to power supply

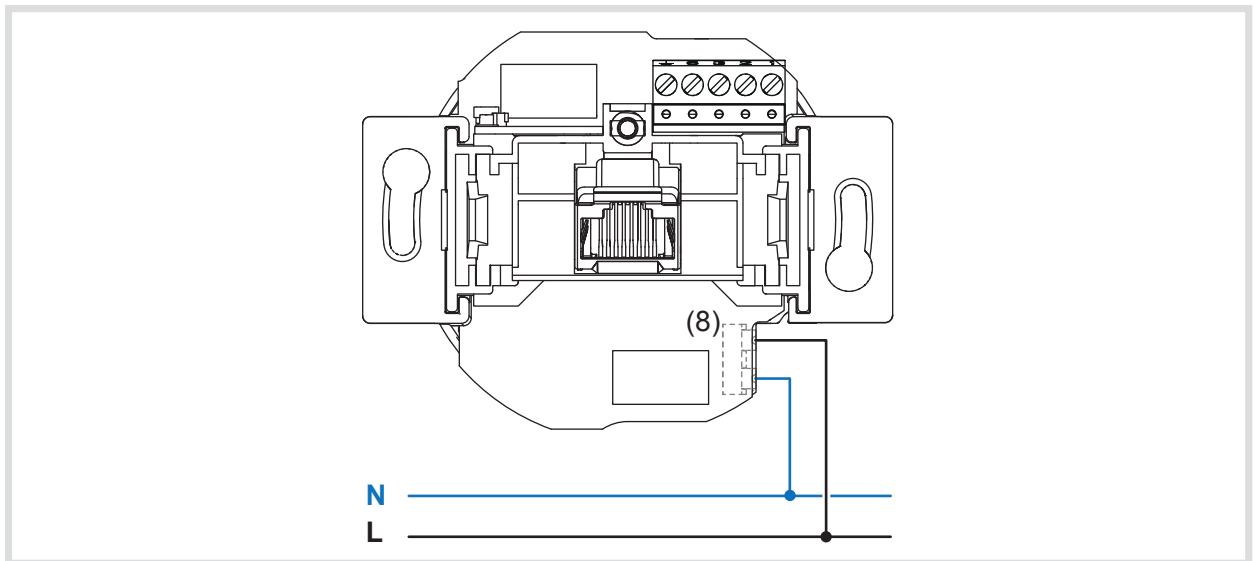


Figure 3: Connection supply voltage

- i** Live cables and network cables must always be laid separately from each other to the wall box.
  - Run the mains cable into the wall box from below.
  - Strip cable adequately and connect cables to the plug-in terminals (8) (Figure 3).
- i** To release the plug-in terminal, press down the retaining lug e.g. using a small flat-bladed screwdriver and pull out the cables.
- i** The power supply of active components, such as from this device or from a PC, must be disconnected from the other consumers in order to prevent any disruptions in the network. For this purpose, use a separate circuit secured by an automatic cutout or circuit breaker as well as appropriate overvoltage protection if necessary. The circuit and connected socket outlets must be labelled clearly e.g. with **EDV**.

### Connect network cable

- Run the mains cable into the wall box from above.
  - Shorten the cable to a length of approx. 90 mm from the bottom of the wall box.
  - Strip the cable to approx. 80 mm. When doing so, keep the pair shielding and twist of the pair and wires as far as possible.
  - Twist the outer shielding **S** and affix it in a conductor sleeve (1 mm<sup>2</sup>) if necessary.
  - Pull off 5pole terminal block (1) from the device and lay the wires according to the prescribed colour coding (Table 2). Cut off wires not required.
  - i** The assignments on the terminal block must match those of the patch panel in the network.
    - Mount terminal block (1) onto the contact pins (3) (Figure 4).
    - Mount the device into the wall box.
    - Unscrew cover.
    - Switch ON power supply.
- Device with the factory settings is ready for operation. A configuration for individual settings can be made.

Designation terminal	⏚	6	3	2	1
Assignment	<b>S</b>	■	■	■	■

Table 2: Assignment on the terminal block (1) of the WLAN Access-Point

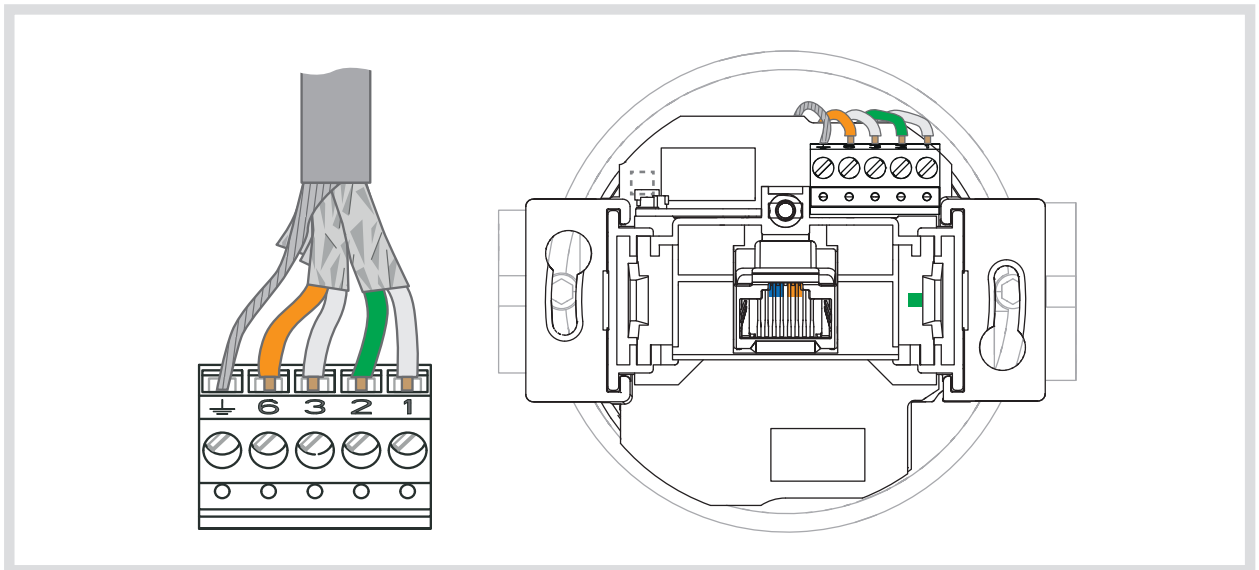


Figure 4

### WLAN Access-Point, PoE (order no. 4583)

#### Connect network cable

- Run the mains cable preferably into the wall box from below.
- Shorten the cable to a length of approx. 90 mm from the bottom of the wall box.
- Strip the cable to approx. 80 mm. When doing so, keep the pair shielding and twist of the pair and wires as far as possible.
- Twist the outer shielding **S** and affix it in a conductor sleeve (1 mm<sup>2</sup>) if necessary.
- Pull off 9pole terminal block (2) from the device and lay the wires according to the prescribed colour coding (Table 3).
- i** The assignments on the terminal block (2) must match those of the patch panel in the network.
- Mount terminal block onto the contact pins (3) (Figure 5).
- Mount the device into the wall box.
- Unscrew cover.

Device with the factory settings is ready for operation. A configuration for individual settings can be made.









Designation terminal	⊥	8	7	5	4	6	3	2	1
Assignment	<b>S</b>								

Table 3: Assignment on the terminal block (2) of the WLAN Access-Point, PoE

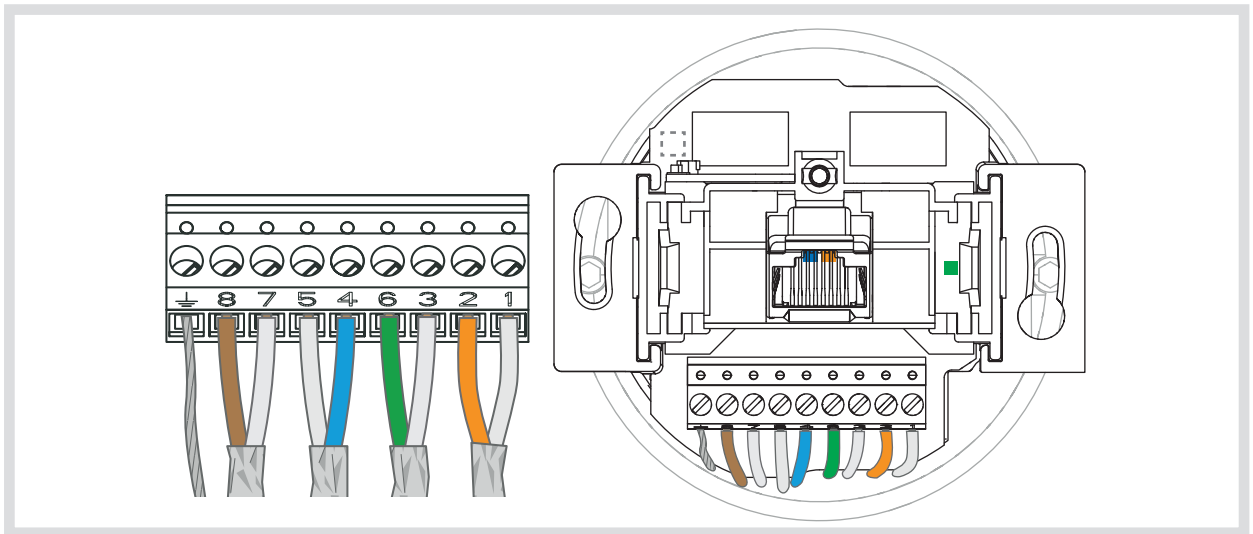





Figure 5

### Information regarding configuration



It is advisable to carry out the Initial configuration with patch cable via the LAN interface of the device.

-  The WLAN IP-address of the configuring device must be within the range 192.168.0.xxx ( $x \geq 0 \leq 255$ ,  $x \neq 5$ ), subnet: 255.255.255.0.
-  After the initial configuration, the password should definitely be changed. When changing the password or SSD, do not use any spaces, numbers or characters such as ä, ü, ö, or ß.

### Configure device via patch cable

- Connect the RJ45 jack (7) at the Access-Point via a patch cable to the LAN interface e.g. via a PC.
- In the Internet browser enter the IP address **http://192.168.0.5**.
- Log on with the password **admin**.
-  The password **admin** applies to the default state.

### Configure device via WLAN

- In the WLAN settings of the devices intended for the configuration, such as a tablet PC, select the the WLAN Access-Point.
-  The Access-Point logs on in the network with the WLAN name (SSID) **Berker**.
- Log on at the Access-Point with the WLAN password **wireless123**.
- In the Internet browser enter the IP address **http://192.168.0.5**.
- Log on with the password **admin**.
-  The password **admin** applies to the default state.

## Appendix

### Technical Data

RJ45 connection socket	10/100 MBit/s
Radio range	2.4 GHz
Radio data rate	150 MBit/s
Radio standard	IEEE 802.11 b/g/n
Encryptions	WEP, WPA, WPA2
Operating temperature	-5 ... +45 °C
Degree of protection accord. to DIN 60529	IP20

### WLAN Access-Point flash-mounted, order no. 4582

Rated voltage	100 ... 240 V~
Mains frequency	50 ... 60 Hz
Power consumption	1.8 W
Conductor cross-section (mains cable)	max. 2.5 mm <sup>2</sup>

### WLAN Access-Point flash-mounted, PoE, order no. 4583

Power supply accord. to IEEE803.2at (class 0)	48 V, PoE
Power consumption	≤ 3 W
PoE supply to RJ45 jack accord. to IEEE803.2at (class 2)	48 V/6.49 W

### Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

### Address of manufacturer

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