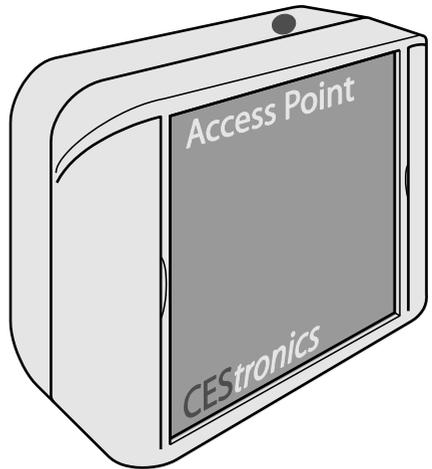




OMEGA ACTIVE Access Point 247510F

Fitting and Operating Instructions



Translated fitting and
operating instructions
version 1.26, 11/2014

Preface

These Fitting and Operating Instructions will help you fit and use the Access Point

- as intended,
- safely, and
- advantageously.

Any person who

- fits,
- operates, or
- disposes of

this Access Point must have read and understood the entire contents of these Fitting and Operating Instructions. These Fitting and Operating Instructions should be kept near the Access Point at all times.

Notes on the layout

In these Fitting and Operating Instructions, various elements are highlighted with defined layout features so you can identify at a glance whether a passage contains

standard text,

- a list, or
- ▶ individual steps in a sequence of actions.



Notes highlighted with this symbol contain additional information on the efficient use of the Access Point.

Contents

Preface 2

Notes on the layout 2

Contents 3

For your safety 5

 Basic safety instructions 5

 Explanation of the safety notes 7

 Declaration of Conformity 8

 Intended use 9

 Remarks 9

 Manufacturer 9

 Service 9

Introduction 10

 Description 10

 Components of a wireless system 12

 OMEGA ACTIVE system components 13

 Scope of delivery 14

 Unpacking the Access Point 15

 Connections 16

 RF ranges 17

Fitting the Access Point	20
Fitting the additional antenna	29
Scope of delivery	29
Trouble shooting	32
Maintenance	35
Spare Parts.....	35
Disposal.....	35
Technical data	36
Glossary	38
Notes on the manufacturer's warranty	40

For your safety

Basic safety instructions

Observe all warnings and notes in these Fitting and Operating Instructions. Always keep these Fitting and Operating Instructions near the Access Point.

To prevent danger to life and limb, the following safety instructions must be observed:

Danger of explosion

Live parts of the Access Point may cause an explosion. Do not use the Access Point in potentially explosive atmospheres.

Danger of suffocation

Never allow children to play with packaging material and/or plastic bags. There is a risk that children pull them over their head and suffocate.

Danger of poisoning

Always keep the locking cylinder out of the reach of children. There is a risk that children swallow small parts such as batteries or screws.

Danger of property damage

To prevent property damage, the following safety instructions should be observed:

- Always have repairs performed by properly qualified personnel.
- Only use accessories and spare parts recommended by CEStronics.

- Only use the proper tools to open the Access Point.
- Do not drop the Access Point on the floor, on hard surfaces or on hard objects.
- Use surge arresters to avoid damage to your Access Point through overvoltage, for example by lightning.
- Protect the electronic components of the Access Point against water and other liquids.
- The Access Point contains highly sensitive electronic parts that may be damaged or destroyed through static charges. Do not disassemble the Access Point in rooms with built up static charge. Ensure potential equalization when working on the Access Point to remove any static charge.
- Do not use the Access Point in corrosive atmospheres (chlorine, ammonia, lime water).
- Only use the Access Point in rooms in which the humidity does not exceed 95 %.
- Do not use the Access Point in rooms with a high level of dust formation.
- Do not use the Access Point near sources of heat.
- Do not expose the Access Point to temperatures below 0 °C or above +40 °C.

Danger of malfunctions

- Do not cover the housing of the Access Point with any metallic material.
- Satisfy yourself when installing the Access Point that both the Access Point and all other system components are in perfect working order. Malfunctions of the Access Point and other system components may compromise the functioning of the entire system.
- If necessary, use uninterruptible power supply (UPS) systems to ensure an uninterrupted operation of your locking system.

Explanation of the safety notes

These Fitting and Operating Instructions include safety notes of the following types:



CAUTION

CAUTION notes warn against hazards that may result in slight or medium injuries.



ATTENTION

Notes warn against possible property or environmental damage.

Declaration of Conformity

CEstronics
Electronic Security Systems



Declaration of Conformity

We, the manufacturer

CEstronics GmbH
Electronic Security Systems
Friedrichstraße 243
D-42551 Velbert
Germany
Phone: +49(0)2051 204-444
Fax: +49(0)2051 204-245

declare on our own responsibility, that the product:

Name: **Access Point**
Type: **OMEGA Active**
Product: **RF-NET Access Point, in all varieties and types**

is in compliance with following standards:

1999/5/EC	R&TTE directive
2004/108/EC	EMC directive
2006/95/EC	Low voltage directive

Applied standards:

EN 300 220-1, V 2.4.1 (2012-05)
EN 300 220-2, V 2.4.1 (2012-05)
EN 301 489-1, V 1.8.1
EN 301 489-3, V 1.4.1 Type I, Class 3

EN 62311
EN 60950

A technical documentation for the product is fully available from the manufacturer. The information provided in the user information is available.

Velbert, 2013/11/04



Dipl.-Ing. Richard Rackl
- Managing Director -

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Sitz der Gesellschaft: Velbert
Registergericht: Amtsgericht Wuppertal
Register-Nr. HRB 18895
ILN-Nr. 4046437000004
USt-IdNr. DE 814236458

Zertifizierung nach
DIN EN ISO 9001

Ein Unternehmen
der CES Gruppe

Intended use

The Access Point serves to transmit data between locking cylinders and/or wall terminals and the control centre of your OMEGA ACTIVE system. It is exclusively intended and may only be used for that purpose.

Any other use is considered to be improper and may result in property damage or even personal injury.

CEStronics GmbH does not accept any liability for any damage resulting from improper use.

Remarks

This fitting and operating instructions are only valid for:

- **CEStronics OMEGA ACTIVE Access Point 247510F**

Manufacturer

The manufacturer from the Access Point is:

CEStronics GmbH
Friedrichstr. 243
42551 Velbert
Tel: +49 (0) 2051-204-0
Fax: +49 (0) 2051-204-105
www.ces.eu

Service

For support in case of service please contact your CESTronics partner.

Introduction

Description

The Access Point is part of the OMEGA ACTIVE system. It establishes the connection between the OMEGA ACTIVE locking devices and the overall control centre via a radio frequency (RF) link. This overall control centre is a commercial PC.

The Access Point is connected with the control centre via an RJ45-Ethernet cable (10/100 Mbit). The Access Point is thus the network interface of the system.

The desired access authorizations are created in the control centre and transmitted via the Ethernet to the Access Points. The Access Points then transmit the authorizations over the RF link to the locking devices.

In return, the log data are retrieved from the cylinders and then fed back to the control centre via the Ethernet.

The wide range of the Access Points allows a wireless deployment of locking cylinders and wall terminals. No further installation work on your doors is required.

If you use OMEGA ACTIVE locking media with a push-button, you can use the push-button to control the relay contact in the Access Point. The relay contact is directly controlled with this button.



A wireless system always comprises a PC, the OMEGA ACTIVE Client software, a number of Access Points for data exchange and at least one locking device.

Other features of the Access Point:

- Integrated 868 MHz RF transceiver.
- The maximum range for reading locking devices inside of buildings is 25 m without and 40 m with the optional additional antenna.
- Power supply of the Access Point with the supplied power pack. No other power supplies are permitted.
- Two colour LEDs at the Ethernet connection for visual signalization of data traffic.

Available accessories for the Access Point:

- D-LAN™ adapter (System Powerline, to implement IP networks using the 230 V power network). This option makes it possible to transmit the network signal via the 230 V power network using suitable adapters. This means that no separate network cables must be installed.
- PoE (Power over Ethernet) adapter. To reduce the installation expense and increase the failure prevention you can supply the Access Point with power via the network interface. This eliminates the need to use the plug-in power supply.
- Antenna retrofit kit to increase the range for reading locking devices to a maximum of 40 m.



The stated reading ranges of 25 m, and 40 m respectively, cannot be guaranteed as the reading range depends on the local building conditions. CESTronics recommends to have your building situation checked by your professional CESTronics partner.



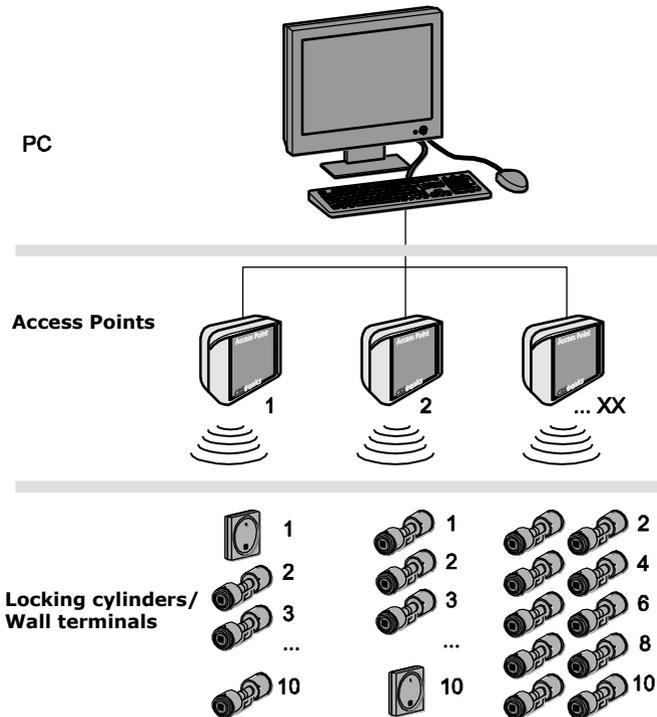
For further information on the available options, please contact your CESTronics partner.

Components of a wireless system

Access Points establish the connection between your control centre (PC) and your locking cylinders and/or access terminals.

The following components are required for the system:

- Standard PC with Windows 7™, Windows 8™
- Network card (TCP/IP)
- Monitor with a resolution of 1024 × 768 pixel or higher
- OMEGA ACTIVE Access Point (maximum ten points of entry per Access Point)
- OMEGA ACTIVE software.

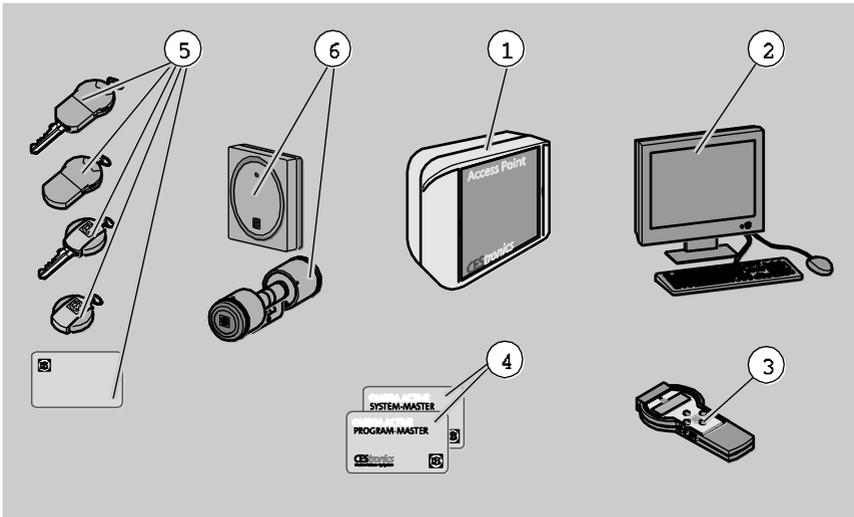


For further information, please refer to the OMEGA ACTIVE software User Manual.

OMEGA ACTIVE system components

The following shows the components that can be combined within the OMEGA ACTIVE system:

i These options can be purchased from a CESTronics partner to match your specific requirements.



- | | |
|----------|---|
| 1 | Access Point (depending on the ordered version with or without additional antenna) |
| 2 | Standard PC (not available from CESTronics) |
| 3 | CP100 programmer (optional) |
| 4 | Master cards (optional): Master cards allow you to authorize locking media by means of manual programming. For further information, please refer to the operating instructions of your locking devices. |
| 5 | Locking media (optional): Your locking devices can be operated with the following locking media: transponder key, key fob, card. |
| 6 | Locking cylinder and access terminals (optional) |

Scope of delivery

- ▶ Before proceeding with fitting and commissioning, please check the contents of the package and the scope of delivery.
- ▶ Satisfy yourself that you have received the ordered version.
- ▶ Check new devices for transport damage and inform your CESTronics partner promptly if any damage is found.

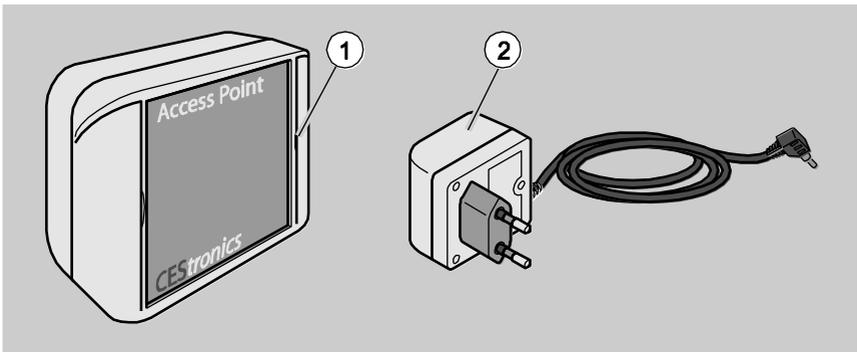
The Access Point is supplied in two versions:

- Access Point without additional antenna for RF ranges of up to 25 m
- Access Point with additional antenna for RF ranges of up to 40 m



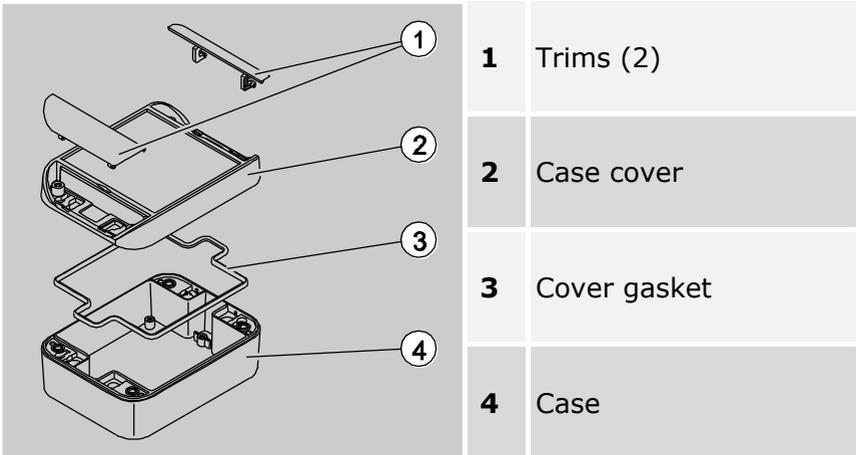
If you wish to retrofit Access Points with additional antenna by yourself, you can order the optional retrofit kit from your professional CESTronics partner (see also page 29, "Fitting the additional antenna").

Device overview



- | | |
|----------|---|
| 1 | Access Point, pre-assembled in Smart Box case (depending on the ordered version with or without additional antenna) |
| 2 | Plug-in power supply with connection cable |

Case parts



Unpacking the Access Point

- ▶ Take the Access Point out of the package and remove any packaging material such as film, padding and packaging board.

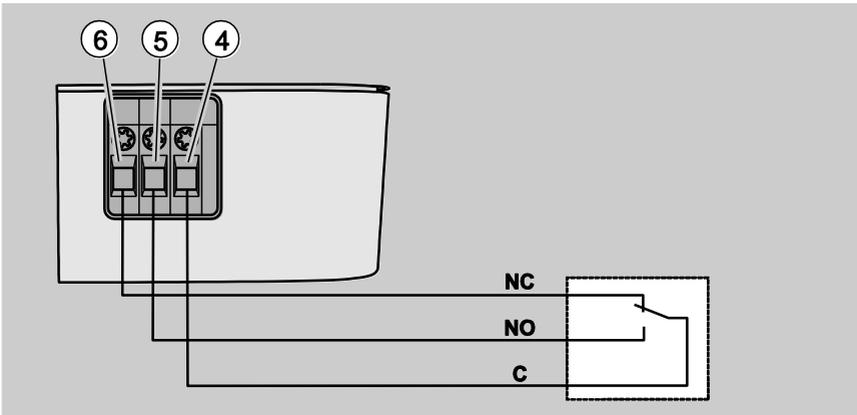
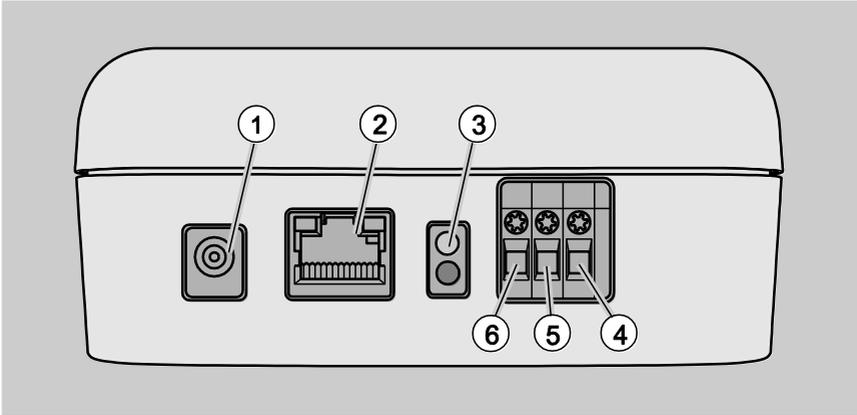


ATTENTION

Risk of damage to the Access Point.

- ▶ Only use the supplied power pack for the power supply of your Access Point.

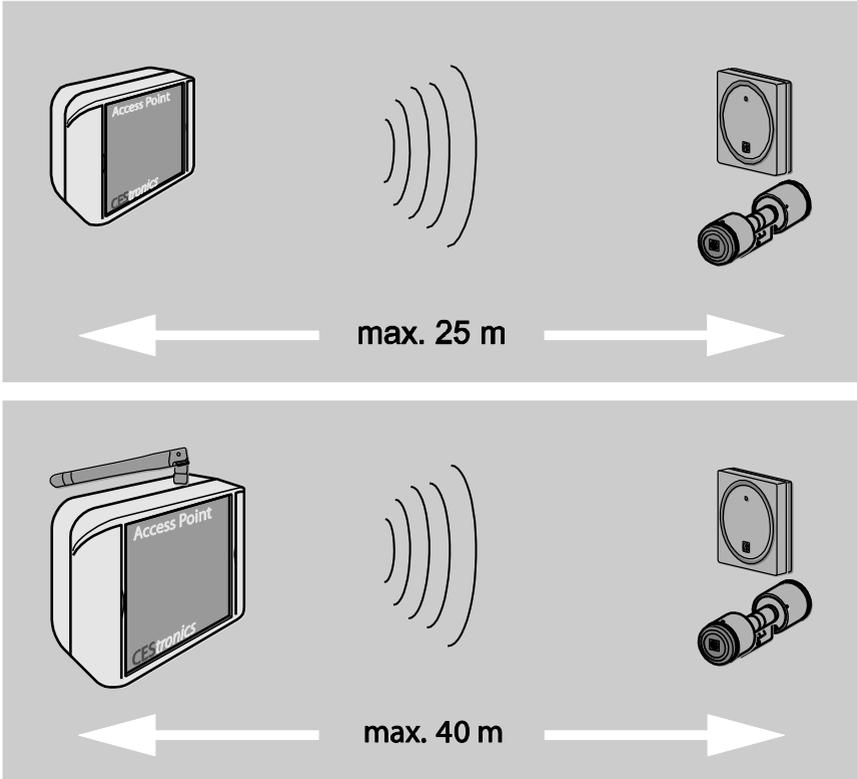
Connections



- 1** Socket for the plug-in power supply
- 2** Socket for the network cable (RJ45)
- 3** LEDs for signalling RF traffic and server connection
- 4** Screw terminal for the relay contact
- 5** Screw terminal for the normally open relay contact
- 6** Screw terminal for the normally closed relay contact

RF ranges

- ▶ Ensure that the permissible RF ranges are observed:



Checking the range

The maximum range for reading locking devices inside of buildings is 25 m without and 40 m with the additional antenna. The RF range may vary significantly depending on the local building situation. See also Note of page 11.



RF-TRACE-MASTER

The optional RF-TRACE-MASTER transponder card allows you to check the quality of the radio frequency (RF) link between the OMEGA server and your locking devices.

The RF-TRACE-MASTER triggers the following signals of your locking devices:

- Flashing green LED: strong RF link
- Flashing red LED: faulty RF link
- Alternately or simultaneously flashing red and green LEDs: weak RF link.

To verify the quality of the RF link to your locking devices, proceed as follows:

- ▶ Hold the RF-TRACE-MASTER for about two seconds in front of your locking cylinder or wall terminal.

The function is performed immediately.

- If the green LED of your locking cylinder or wall terminal flashes, the RF link is OK.
- If the red LED of your locking cylinder or wall terminal flashes, the RF link is not OK and must be checked.
- If the red and the green LEDs flash alternately or simultaneously, the RF link is weak and should be checked to ensure full functionality and reliability.

Fitting the Access Point



ATTENTION

If an Access Point fails, your locking devices cannot be reached any more.

- ▶ Make sure that the Access Points are always easily accessible.
 - ▶ Make sure that all electrical connections can be separated at any time.
-



ATTENTION

The Access Point may be damaged if not fitted properly.

- ▶ Only skilled personnel may fit the Access Point.
 - ▶ This personnel must have been trained on the product by CESTronics or a CESTronics partner.
-



The Access Point must be fitted at an easily accessible location, e.g. at a ceiling or wall.

When fitting the Access Point, you must ensure the following conditions:

- ▶ Make sure that the power supply and the power supply cable can be plugged in.
 - ▶ Make sure that the network cable can be plugged in.
 - ▶ The Access Point must not be fitted on metallic surfaces.
 - ▶ Always install the Access Point as far away from ground potentials as possible to avoid interference with the radio traffic.
 - ▶ The Access Point may not be fitted outdoors.
-



If the range for reading your locking devices is limited, use the optional additional antenna. See also Note on page 11.

The Access Point is supplied preassembled. Before fitting, the Access Point must first be disassembled.

The following tool is required:

- Screwdriver with suitable cross tip bit for recessed head screws (Phillips screws)

In addition, you require suitable fasteners for the Access Point. The fasteners and the related tools required depend on the material at the place of installation.

- ▶ Purchase suitable fasteners material from your specialized dealer for fastening engineering.



ATTENTION

Static charges may damage or interfere with the electronic components of the Access Point.

- ▶ Do not disassemble the Access Point in rooms with built up static charge.
 - ▶ Ensure potential equalization when working on the Access Point to remove any static charge.
-



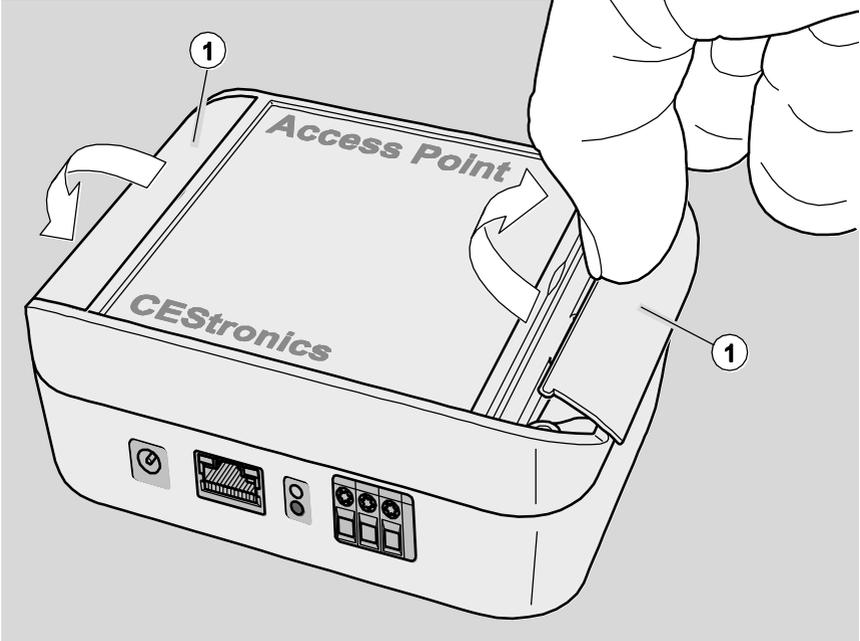
CAUTION

Danger of injury by improper fitting.

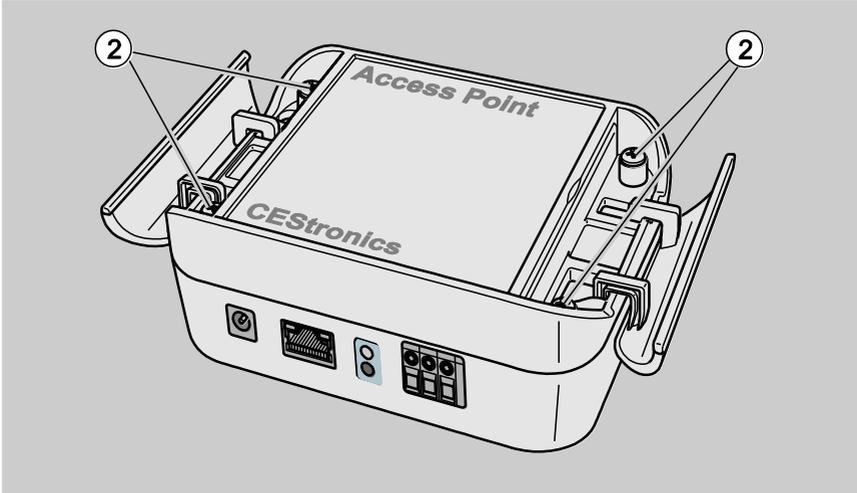
- ▶ Ensure that the Access Point is only fitted by appropriately trained skilled personnel.
-

To gain access to the mounting holes, the cover of the case must be removed. Proceed as follows:

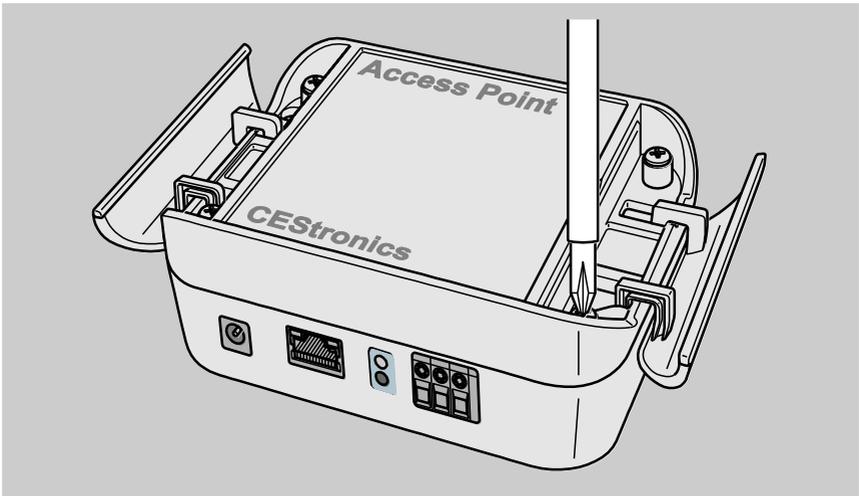
- ▶ Push the two trims (1) on the right and the left-hand side to the side with a finger nail.



Now the four fastening screws are (2) visible.

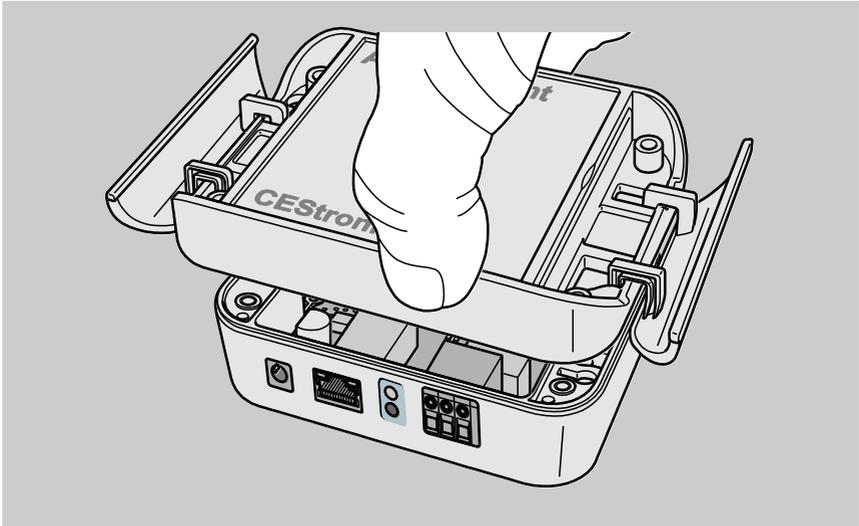


- ▶ Release the four visible screws with a suitable Phillips-tip screwdriver.

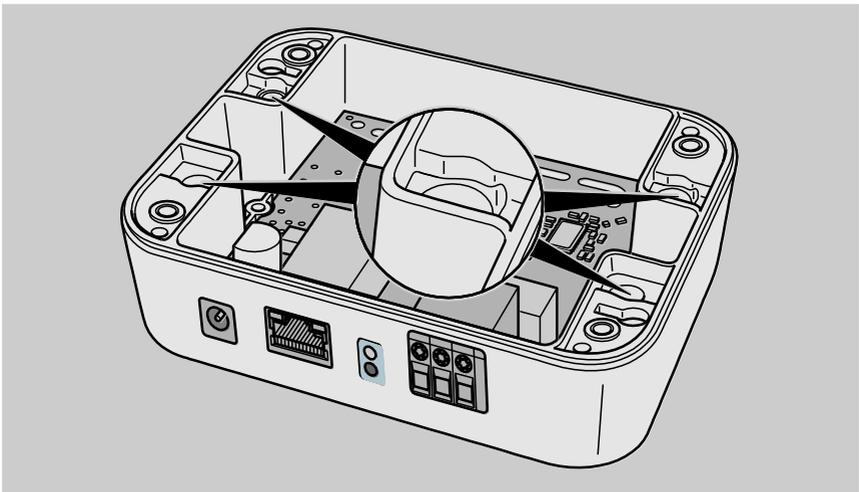


The screws cannot be screwed out completely but will be held in the case cover.

- ▶ Lift the case cover away.



Now the four holes for mounting the Access Point are accessible.



**ATTENTION**

The printed circuit board of Access Point may be damaged through mechanical forces.

- ▶ Be careful not to damage the printed circuit board when fitting the case.

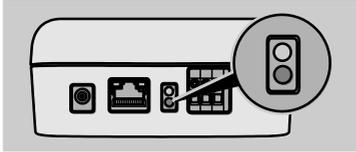
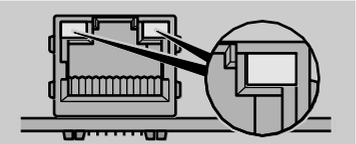
-
- ▶ Mark the position of the mounting holes of the Access Point on the wall or ceiling (see fitting drawing on page 36).
 - ▶ Fasten the Access Point with four screws at the location selected.
 - ▶ When using fasteners, observe the manufacturer's fitting instructions.
 - ▶ Only use the four mounting holes for fastening the Access Point.
 - ▶ Establish the required cable connections as described on page 16.

**CAUTION**

Danger of injury by improper fitting.

- ▶ Ensure that the Access Point is only fitted by skilled electricians or network technicians.

- ▶ If possible, verify the perfect functioning of the Access Point already at this stage:

Normal operation			
Signal location		Meaning	
		<p>Has the connection to the server been established? Does the data communication with the locking devices work? The two LEDs signal the following conditions:</p>	
Signal		Meaning	
Green LED, permanent		Connection to server exists	
Green LED, flashing		Data communication with locking devices	
Red LED, flashing		No connection to server	
Green LED, permanent + Red LED, flashing		Connection to server exists + Data communication with locking devices	
		<p>Is a data link available? The two LEDs show the status with the following signals:</p>	
Left hand side		Right hand side	
Colour	Meaning	Colour	Meaning
OFF	no connection	OFF	no connection
Yellow	10 Mbps	Yellow	half duplex
Green	100 Mbps	Green	full duplex

Afterwards fit the case cover in the order described below:

- ▶ Satisfy yourself that the cover gasket sits perfectly inside the case cover.
- ▶ Place the cover on the case again.
- ▶ Fasten the case cover with the four fastening screws.
- ▶ Fold the two trims back into their covering position.

This completes the fitting of the Access Point.



Satisfy yourself, that your locking devices are operating in RF mode. Otherwise no connection between Access Point and your locking devices is possible.

To switch the locking devices into RF mode, you require the optional RF-INI-MASTER card.

For further information, please refer to the operating instructions of your locking devices.

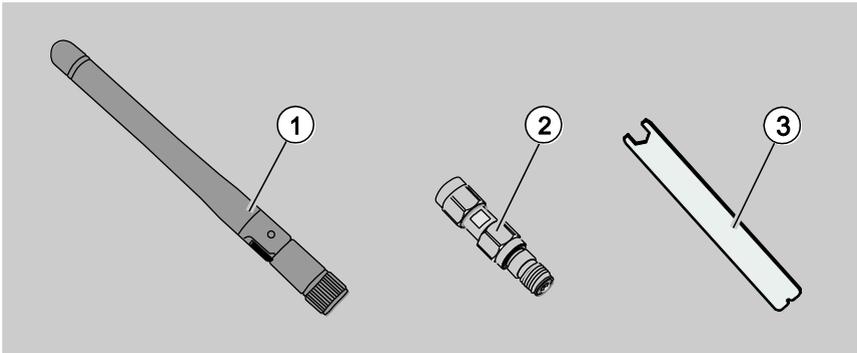
Fitting the additional antenna

To increase the range for reading your locking devices up to a maximum of 40 m you can retrofit an additional antenna.

This additional antenna is available as a retrofit kit from your professional CEStronics partner.

Scope of delivery

- ▶ Before fitting and commissioning, please check the contents of the package and the scope of delivery.
- ▶ Check new devices for transport damage and inform your dealer promptly if any damage is found.



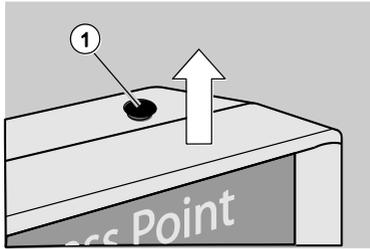
1	Additional antenna
2	SMA connector, complete
3	Flat key



An optional special tool is also available from your professional CEStronics partner for the easy attachment of the SMA connector to the Access Point.
 CEStronics recommends using this tool to avoid damage to the Access Point.

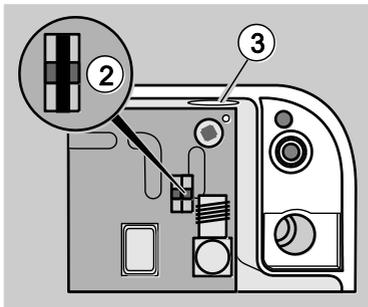
To fit the additional antenna, proceed as follows:

1.



- ▶ Disconnect the power supply.
- ▶ Remove the cover from the Access Point case, as described on page 23.
- ▶ Remove the cover plug (1) at the Access Point if it exists.

2.

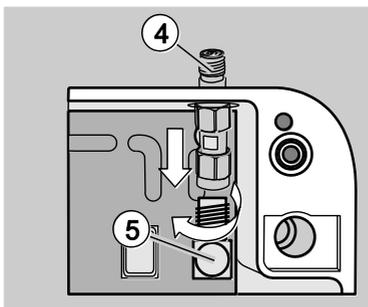


- ▶ Remove the jumper (2). The jumper must be removed for the operation with the additional antenna.

The jumper (2) may only be set when the Access Point is operated with its internal antenna.

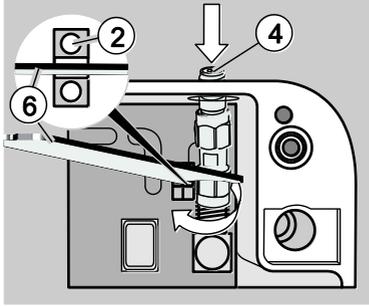
- ▶ Guide the SMA connector through the hole (3).

3.



- ▶ Attach the SMA connector (4) with the flat key to the bushing (5) inside the Access Point.

4.



- ▶ Be sure the flat key (6) is guided between the pins of the jumper (2) while mounting the SMA-connector.
- ▶ Be careful not to damage any surrounding parts when attaching the SMA connector.

- ▶ Finally refit the case cover as described on page 28.
- ▶ Screw the antenna on the SMA adapter.
- ▶ Connect the power supply.

This completes the fitting of the additional antenna.

Trouble shooting

Symptom	Possible cause and remedy
<p>No connection to the locking devices can be established.</p>	<p>Your connection cables are mechanically damaged or broken.</p> <ul style="list-style-type: none"> ▶ Check the installation for broken wires or faulty connections. ▶ Check the continuity of your wires with a suitable instrument (multimeter, ohmmeter). ▶ Verify the proper functioning of the plug-in power supply of the Access Point with a suitable instrument (multimeter, ohmmeter). ▶ Check the plug-in power supply for mechanical damage. ▶ Check the signalization of the LEDs. ▶ Eliminate any interruptions and correct any damage found. ▶ In case of mechanical damage, have your Access Point repaired by your CEStronics partner. <p>The Access Point has no connection to the power supply and/or the network.</p> <ul style="list-style-type: none"> ▶ Check the terminals and connections. ▶ Establish missing connections. ▶ Check the signalization of the LEDs.

Locking devices are outside the radio frequency range of Access Points.

- ▶ Reduce the distance to your locking devices.
- ▶ Verify the quality of the wireless transmission with the optional RF-TRACE-Master.

The locking devices have no power.

- ▶ Check the power supply of your locking devices.
- ▶ Re-establish the proper power supply of your locking devices.
- ▶ For further information on establishing the power supply, please refer to the operating instructions of your locking devices.
- ▶ Replace any flat batteries of your locking devices.
- ▶ For further information on the replacement of batteries, please refer to the operating instructions of your locking devices.

The OMEGA ACTIVE software is not configured correctly. Your PC does not work properly.

- ▶ Check the software settings as described in the OMEGA ACTIVE User Manual.
- ▶ Check the functioning of the software as described in the OMEGA ACTIVE User Manual.
- ▶ Verify the perfect functioning of your PC.
- ▶ If you are not able to verify the perfect functioning, please contact your PC dealer.

Your locking devices do not operate in RF mode.

- ▶ Use the optional RF-INI-MASTER to enable the RF mode of your locking devices.

If the trouble still cannot be eliminated, please contact your CEStronics partner.

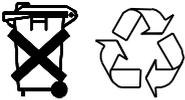
Maintenance

- ▶ Have the Access Point serviced and its perfect functioning verified every six months by CESTronics or by a CESTronics partner only.

Spare Parts

- ▶ The Access Point does not require any spare parts for you to change.
- ▶ If you need service, please contact your professional CES partner.

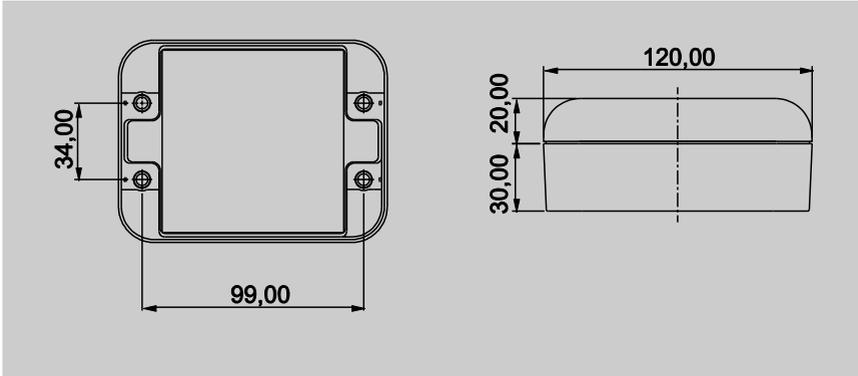
Disposal



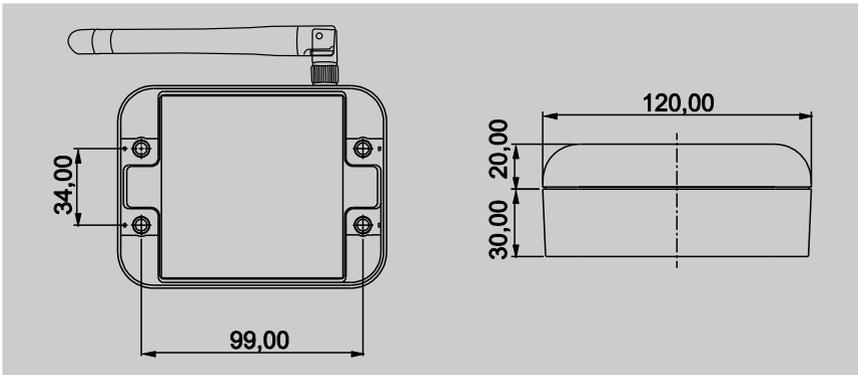
Neither the Access Point, nor any parts of the Access Point may be discarded with the normal household waste. Ask your local authorities about recycling and/or the proper disposal of the device in line with environmental regulations.

Technical data

Version without additional antenna



Version with additional antenna



Dimensions:	Length: pprox.. 120 mm, pprox.. 160 mm with additional antenna Width: pprox.. 90 mm, pprox.. 125 mm with additional antenna Height: pprox.. 50 mm
Power supply:	100–240 V ~ Only via the power pack supplied
Power consumption:	5 V/350 mA
Connection:	Phonoplug 5.5 × 2.1 mm 5.5 mm: - 2.1 mm: +
Relay contact:	1 × normally closed contact, 1 × normally open contact
Relay switching capacity:	5 A 250 V ~, resistive load 5 A 250 V ~, cosφ 0.3 5 A 30 V =, resistive load
Communication frequency:	Sending/transmitting 868 MHz
Network protocol:	TCP/IP
Temperature rage:	0 °C to + 40 °C
RF range:	approx. 25 m, approx. 40 m with additional antenna
Environmental conditions:	Not suitable for use in corrosive atmospheres (chlorine, ammonia, lime water).

Glossary

Locking devices	Locking devices are locking cylinders and wall terminals. If these are operating in RF mode, the Access Point can be linked with them.
Reader module	The reader module is installed in the outside knob of the locking cylinder or in the wall terminal. It detects your locking media.
Master media	Cards to program your locking devices. The OMEGA ACTIVE system comprises two types of Master media, the SYSTEM-MASTER and the PROGRAM-MASTER. Optional transponder cards also have Master medium status.
CP100 programmer	Device that allows you to program your locking devices using a special software.
Locking medium	A medium with which you can lock and unlock an electronic locking cylinder and/or a wall terminal.
SYSTEM-MASTER	Master medium used to authorize PROGRAM-MASTERS for the system. For each locking system, there is one and only one SYSTEM-MASTER.
Transponder	A transponder is a wireless communication or control medium that receives signals and automatically responds to them.

RF-INI-Master	An optional Master card which is used to put your locking devices into RF mode. Radio transmission to your locking devices is only possible after you have switched them into RF mode with the RF-INI-Master.
RF-TRACE-Master	An optional Master card which enables you to test the quality of your RF link.
RF range	The distance within which a safe transmission of data is possible.
RF mode	When supplied, your locking devices do not operate in RF mode. You need the optional RF-INI-MASTER to program your locking devices for the RF mode.

Notes on the manufacturer's warranty

The manufacturer's warranty does not cover:

- damage to outer mechanical parts and damage resulting from normal wear and tear
- damage as a consequence of external events or influence
- damage as a consequence of improper operation
- damage as a consequence of excess voltage
- damage as a consequence of fire, water or smoke.

All technical data and features are subject to change without notice.

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