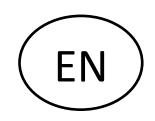
User Manual

APPCONTROL Receiver

AAEG01-AAEG04





Introduction

Thank you for purchasing APPCONTROL. Read the following user manual before connecting or commissioning.

The user manual shows you the right treatment of connecting and working with Appcontrol, furthermore it shows

you different variations for taking best advantage of it.

This product complies with the applicable, national and European requirements. To maintain this condition and to

ensure safe operation, you must observe these operating instructions!

This user manual is part of the product. It contains important information about handling.

Bear this in mind, if you pass it on to third parties. Keep these instructions for future reference or look on the

website

www.appcontrol.co.at

All company and product names mentioned are trademarks of their respective owners.

In case of technical support, please call or write:

Austria: www.appcontrol.co.at

Tel.-Nr.: 0043-2622-65644

Fax-Nr.: 0043-2622-65644

e-mail: c.bader@aub-aktiva.at

Usage

This receiver is built for switching devices ON and OFF by using the worldwide classic Bluetooth system 2.0 up to Bluetooth 4.0 (Bluetooth Low Energy) of your smartphone or tablet. The receiver can handle 8 different devices at the same time. You can choose the numbers of operating elements in the application menu. You can personalize the receiver by changing the name. The name will show up at your operating device. The smartphone application can communicate with up to 100 different receivers. The pairing of the devices will be initialed via pushing a button inside of the receiver. This is a standard Bluetooth pairing process. The classification works with the radial switch; it has 8 positions (1 - 8). In case of an operating system which is no longer required, it can be individually deleted from the memory. It is also possible to set the receiver back to factory settings.

Power is supplied via terminal. There are terminals for 12V AC/DC, 24V AC/DC or 230V AC devices. All connections are safe against reverse polarity.

The switching-outputs are changeover-relay-contacts with a switching-power of 6A rated current and 15A peak current are lead over terminals.

There is an omnidirectional antenna or a panel antenna for mounting on walls or masts. The antenna connection is a SMA high-frequency socket.

The **APPCONTROL** receiver will be delivered with a weather resistant case. The case is built with the IP66 security standard. If the supplied cable glands are used, the degree of protection IP54 is ensured. To ensure the outdoor use, the receiver needs to be properly attached into the delivered case.

Any usage other than those previously is prohibited and can destroy the product which can cause risks such as a short circuit, fire or familiar risks. It is prohibited to change or work on the product. The safety information in this manual must be observed. Please read the manual attentively and keep it for further references.

Safety note

Any damage caused by failure to observe these instructions will invalidate the warranty/guarantee._For consequential damages, we do not assume any liability! To property or personal injury caused by improper use or not following the safety, we accept no liability. In such cases, the guarantee/warranty expires!

If you have problems at mounting, connection or installing, nor have doubts about the functional principal, please consult a specialist - take mounting, connection and installation on non-self.

- For safety and certification (CE) the alteration and/or modification of the product is prohibited.
- Allow adequate ventilation to ensure and secure the Bluetooth switching module never on flammable surfaces (e.g. wood wall).
- Electrical equipment does not belong in the hands of children. Use special caution in the presence of children; they could try to push objects through openings in the device. This product is not a toy!
- The receiver will be delivered with a weather resistant case. The case is built with the IP66 security standard. If the supplied cable glands are used, the degree of protection IP54 is ensured. To ensure the outdoor use, the receiver needs to be properly attached into the delivered case.
- Mount the receiver unreachable for children.
- Do not use the device instantly when it's brought from a cold place to a warm place. The condensation
 may cause function problems or damages, there is the danger of electric shock. Let the receiver reach
 room temperature, before using it. This could take a few hours.
- If it can be assumed that safe operation is no longer possible, the instrument shall be made inoperative
 and secured against unintended operation. It can be assumed that safe operation is no longer possible
 when:
 - > The device has visible damages
 - > The device does not work anymore
 - Due to bad storage under bad conditions or
 - Due to bad transport
- Maintenance, adjustments or repairs may only be carried out by a specialist/specialist workshop.
- Thunderstorms may be a danger to all electrical devices. Surges on the power line may damage the
 device.
- In industrial facilities, the accident prevention regulations of the trade association should be observed for electrical installations and equipment.
- In schools, educational institutions, clubs and workshops, the operation of the product is responsible for monitoring by trained personnel.
- This module is equipped with highly sensitive components. These electronic components are very sensitive to electrostatic discharge. Please touch the receiver only at the edges and avoid touching the pins of the components on the circuit board.

- The receiver can just be operated, if the receiver is mounted in a case against direct touching. During
 installation, the receiver needs to be unconnected to the power supply.
- All wiring must be performed with the power off.
- This product generates high frequency. Do not operate near medical devices (eg pacemakers) and/or medical facilities (e.g. hospitals).

Installation spot

Before installing, make sure the device will be mounted at the right place. It is necessary to have the device completely configured before installing it. It is very important to protect the device against interferences like metal, radio systems or electric devices. Make sure that the antenna is aiming towards your smartphone; the spot of your device should be as high as possible to ensure a 100% connection.

Receiving test performance

Perform a receiving test before mounting it to the intended place to prevent incorrect mounting. Therefore it is necessary to place the antenna to the intended place and to operate the transmitter. If the result is not satisfactory, replace the antenna to another place and repeat the steps. The range of communication values between 50 m and 150m.

Installation

All wires should not be kinked and squeezed. Function disability, short circuits and failure could be the consequences. Caution, do not damage any wire during the drilling. The *APPCONTROL* receiver will be delivered with a weather resistant case. The case is built with the IP66 security standard. If the supplied cable glands are used, the degree of protection IP54 is ensured. To ensure the outdoor use, the receiver needs to be properly attached into the delivered case.

To guarantee a secure installation, run through the following points:

- Remove the 4 screws and take off the transparent case cover
- Turn the fixing screws anticlockwise until they come out
- Attach the cable glands to the cable holes
- Take the case and hold it to the intended spot. There are 4 mounting holes inside the case
- Draw the 4 holes to the intended spot by using a pen
- Drill the holes. Take care not to damage the wires

- Fix the case with suitable material (screws, etc.)
- Connect the antenna to the connector. Pull off the plastic film at the backside of the antenna and mount it as far as possible off the module.
- Go on with the power supply

After connecting the module with power, put the transparent case cover back on to the case and turn the screws for guaranteeing a perfect use. There is a technical drawing at the end of the manual.

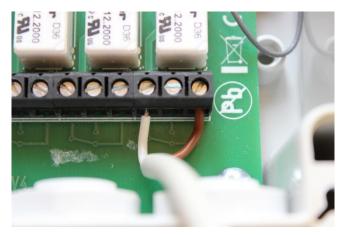
Connection

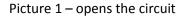
Make sure to have the **APPCONTROL** receiver without any power supply before starting the connecting. Connection process is only allowed by a professional. Make sure to have the same power supply as the ordered device.

To connect a wire to the terminal, unscrew the screw until you have enough space for the wire. Put the soldered end of the wire into the terminal block and screw down the screw.

To open a currency circuit (e.g.: turning a constantly glowing light off) use the terminal contacts shown in picture

To close a currency circuit (e.g.: turning on a light) use the contact in the middle and the left one, shown in picture 2.







Picture 2 – closes the circuit

Connection terminal voltage

The power supply values can change according to the order from 12V AC/DC, 24V AC/DC to 230V AC. It is not necessary to take care of the polarity.

Connection terminal relay

There is a changeover contact for each relay. The close contact is mainly used.

Pairing process for Android

- Make sure that the app is downloaded and properly installed. There should not be any other device, which uses bluetooth, around.
- APPCONTROL needs to be connected to the power supply
- Turn the rotary switch to your number of license (e.g.: first user has number "1")
- Press and hold the "Learn" push button **until the red LED lights continuously**. When the LED lit up, you have 60 seconds to pair your phone with the module.
- Open the app and press "New Receiver", furthermore press "Search Receiver". After a successful search choose the intentional receiver. Pairing process starts. After pairing is done, wait until the green LED flashes frequently in a period of 1 second. You can go back to the main surface by clicking on the APPCONTROL symbol on the upper left side. Your smartphone will connect with the receiver automatically.
- To complete the settings, go back to "My Receivers"
- Choose your receiver to edit the name. The name should contain the number of the rotary switch (1 8) and a personal name (e.g.: 1 Garage Daniel Flynn). Furthermore choose the number of buttons you want to have (1 4). Press "Save" to complete the process. You can go back to the main surface by clicking on the *APPCONTROL* symbol on the upper left side. Your smartphone will connect with the receiver automatically. It is important to change the name like mentioned above in case of deleting your smartphone.
- Close **APPCONTROL** to disconnect automatically
- If you press a button you should see the feedback signal switching from red to green. If you can't see
 this you are standing out of range.

Pairing process for iOS

- Make sure that the app is downloaded and properly installed. There should not be any other device, which uses bluetooth, around.
- **APPCONTROL** needs to be connected to the power supply
- Turn the rotary switch to your number of license (e.g.: first user has number "1")
- Press and hold the "Learn" push button **until the red LED lights coninuously**. When the LED lit up, you have 60 seconds to pair your phone with the module.
- Open APPCONTROL and press "+". Now press "Search". Choose your receiver to initiate the pairing process. Press "pair" after a requested window shows up. After pairing is done, wait until the green LED flashes frequently in a period of 1 second. Press "Save" to complete the process. You can go back to the main surface by clicking on the APPCONTROL symbol on the upper left side. Your smartphone will connect with the receiver automatically (blue LED turns on).
- To conclude settings press "i"
- Choose your receiver to edit the name. The name should contain the number of the rotary switch (1 8) and a personal name (e.g.: 1 Garage Daniel Flynn). Furthermore choose the number of buttons you want to have (1 4). Press "Save" to complete the process. You can go back to the main surface by clicking on the *APPCONTROL* symbol on the upper left side. Your smartphone will connect with the receiver automatically. It is important to change the name like mentioned above in case of deleting your smartphone.
- Close **APPCONTROL** to disconnect automatically
- If you press a button you should see the feedback signal switching from red to green. If you can't see this you are standing out of range.

Activate the latch function

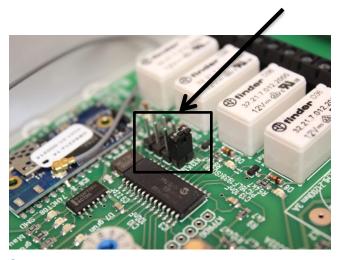
If you want to control light or anything that needs to be switched on for a decade of time, you have to change the **APPCONTROL** receiver to the latch function.

By clicking the button on the app once, the receiver will switch on the relay. By clicking the button a second time, the receiver will open the relay and for example the light will turn off.

To activate the latch function, please run the following steps:

- Make sure your **APPCONTROL** receiver is disconnected to the power supply.
- Open the housing of your receiver.
- You can see 8 metal contacts above the relays. There are 4 jumpers plugged on the connectors. Each
 jumper connects 2 metal contacts vertically and each pair of connectors is for 1 relay
- To activate the latch function put a jumper over the pair of the contacts you want. 1st pair is for the 1st relay. 2nd pair for the 2nd relay. 3rd pair for the 3rd and 4th pair for the 4th relay.
- If you want to remove the latch function, please disconnect the two contacts by pulling the jumper off.
- When you don't use the latch function, put the jumpers on one side of the contacts. You won't lose them that way. Make sure that you only connected one side of the contacts!

Connectors for latch function







1 latch function deactivated

Reset

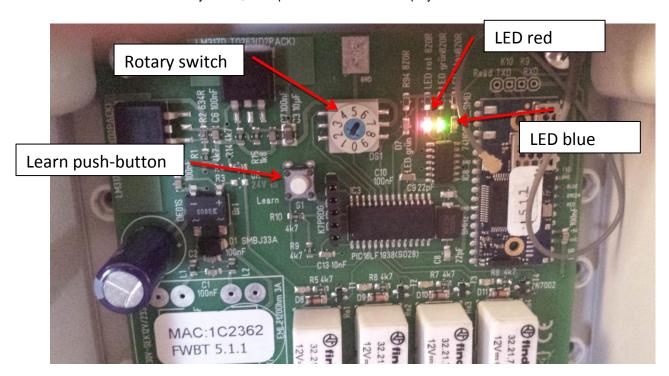
- APPCONTROL needs to be connected to the power supply. There should not be any other device, which uses bluetooth, around.
- Move the rotary switch to position "0"
- Press and hold the "Learn" push button until the red LED lights up.
- After 1 minute the LED turns off. The smartphone which is saved under this number is deleted. No
 connection is possible anymore. If you want to pair the smartphone again, you have to delete the device
 inside of the app and at the bluetooth setting. Further steps are mentioned in "Pairing process".

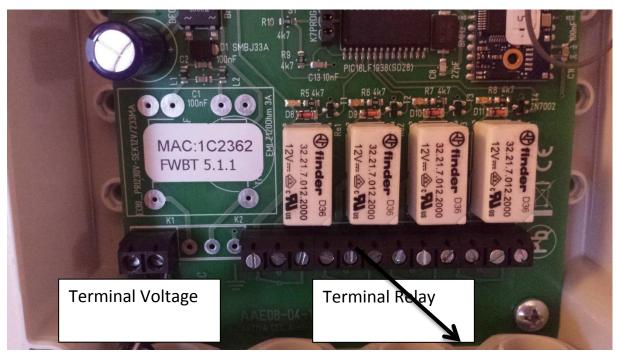
Delete receiver inside of the app

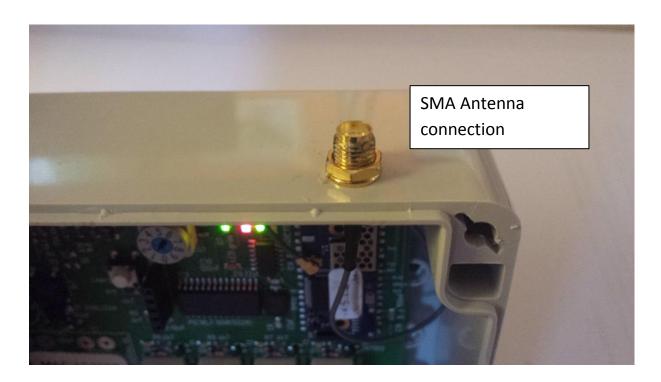
- Make sure that the receiver has no power and/or that you are standing out of range.
- Open the app and press "My Receivers".
- Choose the intended device
- Press "delete"
- Approve it by clicking "Yes"
- Delete it at your bluetooth settings of your smartphone.

Display and Controls

• Receiver with rotary switch, learn push-button and LED display







App display for Android/iOS

Main display



Settings



Dispose

Dispose of the product at the end of its service life in accordance with the applicable statutory provisions.

Maintenance and cleaning

Maintenance

Check all technical safety of your **APPCONTROL** receiver frequently to ensure no damages on wires and housings. If it can be assumed that safe operation is no longer possible, the system must be taken out of service and secured against inadvertent operation. It can be assumed that safe operation is no longer possible if:

- The system, the power supply or the wires are visible damaged
- The system or the power supply does not work
- After bad conditions of storage
- After bad damage during transportation

Cleaning

For cleaning the outside of the device, use a clean, dry and soft cloth. Do not use aggressive cleaners; it can damage the housing and the function.

Before starting the cleaning and maintenance process, note the following safety hints:

The opening and removing of parts can expose live parts. Make sure to disconnect the device from the power supply before you start servicing or cleaning. Condensers can be charged after switching off the power. Do not replace power supply wires on your own! Disconnect the wires and contact professionals. Reparations are only allowed through a specialized professional.

Technical data

Voltage: 12V AC/DC, 24V AC/DC or 230V AC

Currency: max. 20-120 mA

Bluetooth classification 1, 2.0 and 4.0

Output: 1-4 volt-free changeover relay outputs rated currency 6A, peak currency 15A

Antenna connector: SMA

Enclosure: The enclosure has an IP66 rating. If you supplied the cable ducts, the degree of protection is IP54.

Dimensions: receiver housing (L x W x H): 120 x 10 x 55 mm

Weight: 180 g

Declaration of Conformity

We, Aktiva CEC, Street V/5, A-7201 Neudoerfl, hereby declare that this product adheres to the fundamental requirements and the other relevant regulations of Directive 1999/5/EC, FCC and IC Compliance, Japan Radio Equipment Compliance (TELEC).

The declaration of conformity of this product is available at www.appcontrol.co.at