



Short description of the product

The AK-CA-24 fan controller with an LCD display is designed for installation in a computer case in a 5.25" bay. The panel is equipped with an LCD screen, speed controllers for two fans, two USB 3.0 ports and a fan failure alarm.

The product is compatible with the applicable national and European requirements.

What is in the box?

- AK-CA-24 controller
- mounting screws

Symbols explanation:



There is a particular danger connected with service.



There is a risk of losing health or life (e.g. by electric shock).



Important tips and information.



The CE standard description on the product is the manufacturer's declaration that the marked product meets the requirements of the directive so-called The "New Approach" of the European Union (EU). For security and certification (CE) reasons, the device can not be rebuilt or changed in any way. In the event of using the power supply for other purposes than those described, the product may be damaged. The incorrect use may also cause hazards such as short-circuits, burns, electric shocks, etc. Read the user manual carefully and keep it for later use. The product could be shared with third parties only with the user manual included.



Product accordance with the EU directive 2002/96/EC. The symbol of the crossed out basket placed on the product means that the marked product can not be disposed of with other household waste. After use, the product must be returned to a collection point for used electrical and electronic equipment or to the seller. Appropriate segregation of rubbish for subsequent processing, recovery or destruction contributes to avoiding negative effects on the environment and health, and also allows the recovery of raw materials from which the product is made.



The RoHS mark on the product is the manufacturer's declaration that the marked product meets the requirements of the EU Restriction of Hazardous Substances (2002/95/EC) directive, which aims to reduce the amount of hazardous substances penetrating into the environment from electrical and electronic waste.

Safety Precautions



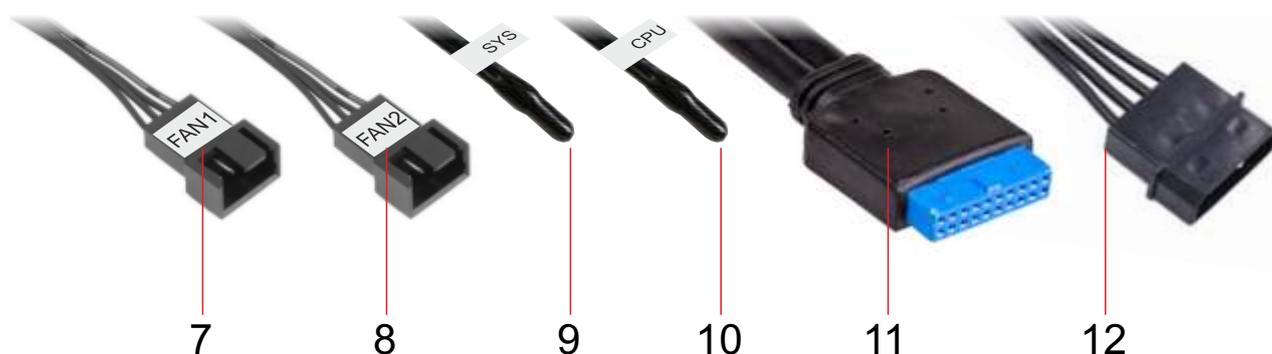
An electrostatic discharge occurs when two objects touch each other, for example, an electric charge that occurs when a user touches a metal door handle after walking on a carpet. Discharging electrostatic charges from fingers or other electrostatic conductors can damage electronic components. To avoid damaging the e-bike, abstain from touching electrical outlets, wires and electronic circuits. The user's contact with electronic components should be kept to a minimum.



The manufacturer of the product is not responsible for damage or insults caused in effect of disobeying the safety instructions and informations contained in these user manual.



- Keep the product and the packaging out of range of children and animals. The package includes a foil that a child could choke while playing.
- It is forbidden to apply the mechanical load to the product - strong shocks, impacts, dropping or crushing may cause its damage.
- The product operation in adverse conditions is not allowed. Adverse conditions are primarily: exposure to direct sunlight, high or very low ambient temperatures, strong vibrations, high humidity, surrounds of gases, dusts or flammable and aggressive liquids.
- If the product has been damaged, does not work properly or has been stored for a long period of time in bad or unfavorable conditions, safe operation of the device is not possible. It is essential to stop using the product and to protect it against re-use for security purposes.
- Product and power cord should not be touched with moist or wet hands under no circumstances.
- Short-circuiting the current connection and putting not intended objects to USB ports are prohibited.
- Avoid thermal load of the cable - in particular keep away from heat sources (such as stoves, radiators, fireplaces).
- Mount the controller carefully in the enclosure to avoid damaging the cables or other parts inside it.
- It is forbidden to modify the controller. In case of modifications the controller may be damaged causing danger to life, health and property.
- Before turning on the computer, make sure that the controller has been placed correctly in the bay.
- Take into account the instructions of other devices to which the controller is connected.
- In case of any doubts regarding operation, safety or connection of the product, please contact the manufacturer or a qualified specialist for this purpose.
- All maintenance, adjustment and repair work on the product may only be carried out by a qualified person in a specialist facility.



Fan controller

1. Knob for changing the speed of fan 1

The knob is used to control the speed of fan 1. This control is carried out by varying the fan supply voltage from 8.4 to 11 V.

2. Fan 1 and CPU sensor parameters

On the left side of the display, there is the current temperature reading from the sensor marked CPU and the speed value of fan 1.

3. Fan 2 and SYS sensor parameters

On the right side of the display, there is the current temperature reading from the sensor marked SYS and the speed value of fan 2.

4. Knob for changing the speed of fan 2

The knob controls the speed of fan 2 by varying the fan supply voltage from 7.9 to 12 V.

5. USB 3.0 Port

6. USB 3.0 Port

7. Fan connector 1

The 4 / 3-pin hybrid connector is used to connect the fan.

8. Fan 2 connector

The 4 / 3-pin hybrid connector is used for connecting the fan.

9. Sensor SYS

The sensor is used to measure the temperature. The current value is displayed on the left side of the display.

10. CPU sensor

The sensor is used to measure the temperature. The current value is shown on the right side of the display.

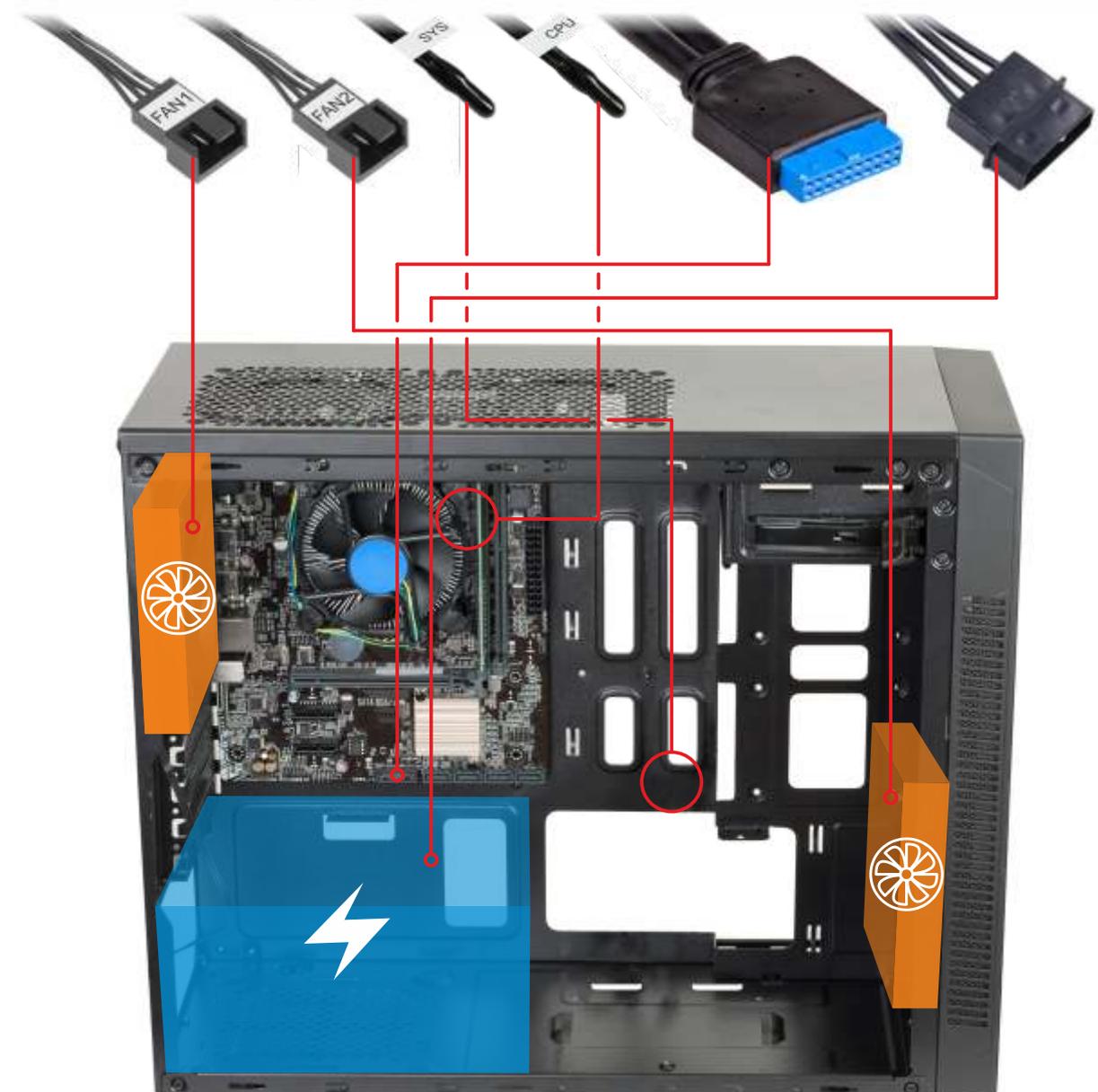
11. USB 3.0 connector

Use this cable with a 19-pin USB connector to connect the USB 3.0 ports to your mainboard or expansion card.

12. Molex connector

The cable with a Molex connector is used to connect the controller to the power supply.

Controller installation:



Fan controller

1. Turn off the power to the computer.
2. Pull out the dust cover from the front side of the case.
3. Slide the controller into the 5.25" bay.
4. Screw the controller to the case.
5. Connect the controller to the respective components:
 - a) Plug the Molex connector into the ATX power supply.
 - b) Plug the USB connector into the matching USB 3.0 socket on your mainboard.
 - c) Plug in the 4-pin connectors of the two fans.
 - d) Install thermometers around the CPU and in the centre of the case (SYS).
6. The controller is now ready for use.

Sound Alarm:

The controller has a built-in alarm that informs:

- a) when the fan speed decreases below 200 RPM or when it stops completely,
- b) when the temperature inside the enclosure exceeds 70°C.

Cleaning



Disconnect the power supply from the electrical socket and connected devices before cleaning.



- Use soft and antistatic cloth for cleaning the power supply.
- Do not use abrasive or chemical cleaners.
- Do not immerse the controller in water.

Technical specification



Product code:	AK-CA-24
Supply voltage:	12 V
Output voltage range:	7.9-12 V
Power supply connector:	Molex
Connectors:	USB 19-pin + 2x 4-pin
Cable length:	30 cm
Installation location:	5.25" drive bay
Material:	ABS + metal
Product size:	150x85x35 mm
Net weight:	215 g
Compliance with standards:	CE, FCC, RoHS
EAN code:	5901720131621