MIKOTERM electronic

mControl

AC400

SMART CONTROL AIR CONDITIONING

THE CONTENT

1.   USING SMART AIR CONDITIONING CONTROL

The mControl AC400 SET allows you to control the air conditioning unit using its application via the Internet, even when you are not at home. The mControl AC400 SET helps you maintain your room at the temperature you set by communicating with the air conditioner via infrared signals.

- Smart air conditioning controller
- Control using a mobile application
- Operate the air conditioner using location mode
- Daily and weekly program
- Fan speed and time setting
- Reports on past operating and thermal data
- Weather Forecast
- With smart air conditioning control, you can use the mobile app to control the temperature of your home wherever you are in the world.
- With the mobile application of smart air conditioning control, you can easily create daily and weekly programs.
- With location mode, you can lower or increase the temperature in your home when you move away or when you approach your home.
- According to the date range selected from the mobile app, you can see the smart air conditioner smart control hours, your house temperature and outside temperature displayed graphically and get a report of this data.

1.1   AREAS OF USE

- House
- Apartments
- Residences
- Schools

1.2   MECHANICAL DESIGN

- Upper and lower plastic housing
- Non-slip feet
- Buttons and LED light
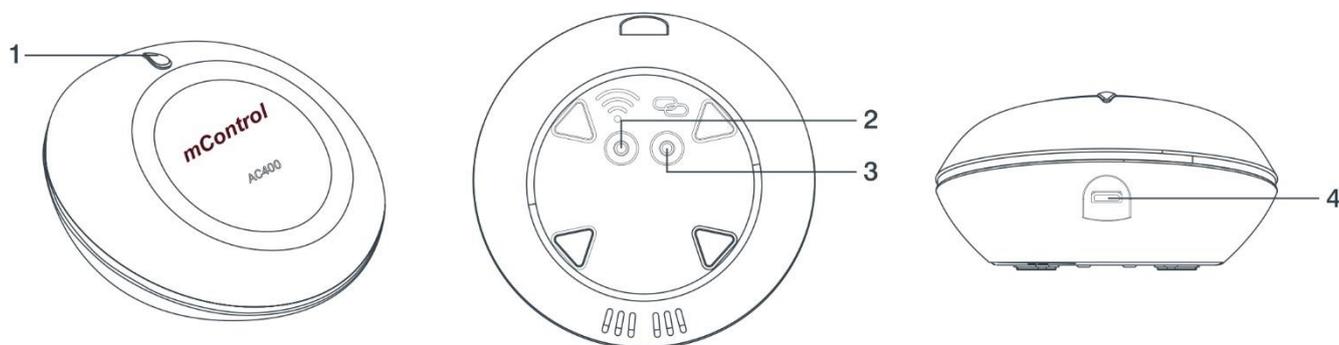
1.	Led: Provides information about the mode and status of the device.
2.	Wi-Fi Reset Button: Pressing the button for 4 seconds resets Wi - Fi connection and forgets connection information. This allows you to connect new network.
3.	Mode Switch Button: Allows you to switch between odes (Home, Sleep, Outside, off) when the button is pressed for 2 seconds.
4.	AC Cable Input.

1.3   THE WORKING PRINCIPLE

AC400 specifications:
• Two-position steering control (ON / OFF)
• Temperature sensor (NTC)
The smart air conditioner controller measures the room temperature with its temperature sensor. The desired temperature value is set via the mobile application.
Mobile application interface; Symbols for set temperature, room temperature, operating status of the air conditioner
are shown on the display. The product measures the temperature to the nearest 0.1 ° C.

1.4   FUNCTIONS

Temperature control
The AC400 smart air conditioning controller works like an air conditioning remote control. After the AC400 sends a signal to the air conditioner, the air conditioner checks the ambient temperature. When the room temperature reaches the desired temperature, the air conditioner measures this change with its thermostat, switches off and starts when the temperature changes again.
During this time, the AC400 does not send any command signal to the air conditioner.
Calibration
If it is necessary to calibrate the measured temperature, this can be done using the application.
Air conditioning safety check
When the room temperature changes too much from the desired temperature, the smart air conditioning controller AC400 sends an OFF signal to the air conditioner and sends a notification message to your phone.

1.5   AC400 SMART AC (AIR CONDITIONER) CONTROLLER PLACEMENT

Your Air Conditioner now controlled by AC400 Smart AC Controller. You need to place the AC400, considering the placement of your Air Conditioner and Modem. Make sure to position of the AC400 faced to the air conditioner. Please consider that the distance between your AC400 and Air Conditioner will be effect signal quality. Because of this, please put the climate control kit as close as possible to the air conditioner. Remember that you can improve the signal quality by turning the sloping surface of the device (grille) to the air conditioner. AC400 uses internet to communicate, so please make sure that device is in the range of your wireless modem. Avoid placing the AC 400 where there is a lot of air circulation (air blowing area of the air conditioner, door entries, window edges, etc.) so that the temperature reading can be done correctly. Also, do not place in heat units (central heating system, fireplace, etc.) and places that receive direct sunlight. You can try to place few locations to find the most suitable place.
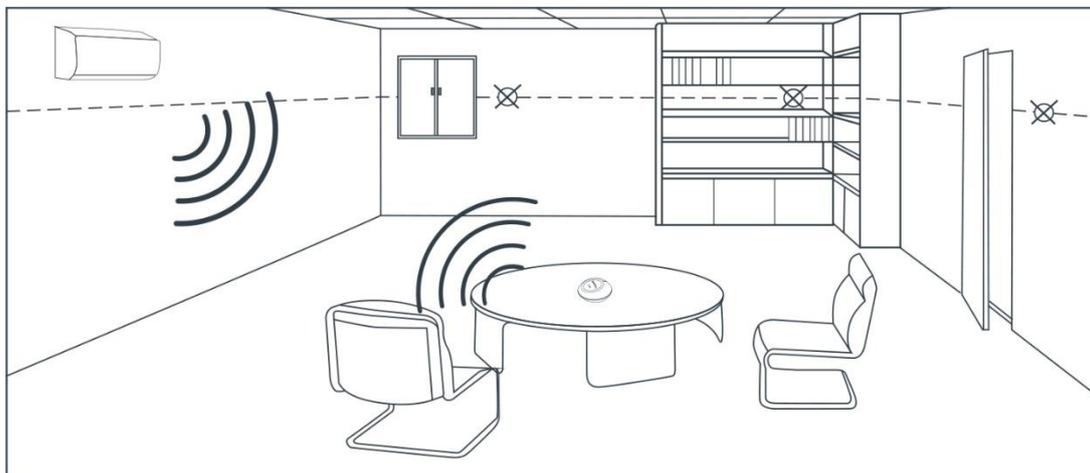
The smart air conditioner controller should be used with its adapter and cable.
The device should be placed at a short distance where the smart air conditioning controller can directly "see" the air conditioner.
Local electrical regulations must be observed during installation.
The parts contained in the AC400 SET smart air conditioner controller are made of PC material.

1.6   MAINTENANCE

The device does not require special maintenance.

2. AC400 SMART AC (AIR CONDITIONER) CONTROLLER SETUP

To start setup and mounting, first scan QR Code below via your smartphone. You can install the application on your smartphone with that code (You may need QR Code Reader App regarding your phone's model and brand).

Plug in adapter to AC400 and than wait for the light to come on. After the light starts blinking purple, the AC400 smart setup will be ready.

2.1 SMART SETTINGS (INSTALLATION AND SYNCHRONIZATION)

- Download AC400 mobile app from **App Store** or **Google Play Store**
- Please open the downloaded App and complete sign-up and connection.
- You will receive a confirmation code mail after you completed signing up.
- If you confirm the incoming mail, the application will direct you to the Air Conditioner Sync page.
- Please select the brand of your air conditioner from brands list on the Air Conditioner Sync page.
- Try remote controllers in the list to determine remote which controls your Air Conditioner.
- After you completing the remote selection, the App home page will be opened. Select Manual Mode and control remote functions (heating, cooling, setting temperature, fan speed and off). Setup is completed If all functions are operational. If some functions are not operational, select other remotes from the list under the name of your air conditioner brand in Sync Air Conditioner menu. Try other remotes to find which is suitable for your air conditioner.

Important: When synchronizing the thermostat with the air conditioner, it is necessary that the thermostat is facing the air conditioner and that they can see each other.

Important: in order to synchronize the thermostat with the home network, you must make sure that the frequency of the Wi-Fi network is 802.11 b / g / n @ 2.4GHz. It is also important that the code for the home router with which the thermostat is synchronized does not have characters and punctuation marks such as (= + _ #.!?, @% $ „/> <* -), but only letters or numbers.

Important: If you have started the thermostat synchronization process on one phone and you have not synchronized the thermostat correctly, you cannot synchronize the thermostat on the other phone until you uninstall the application on the previous one or synchronize the thermostat correctly.

Important: there is only one administrator account for thermostat control and you can add 4 more users.

At the following link, you can watch a video that describes in detail the procedure for installing the application and synchronizing the thermostat:

– **https://www.youtube.com/watch?v=7_3uFvYJWmU&t**

– or on the Mykoterm YouTube channel which you can reach through our site

www.mikoterm.com

– or by loading the following QR code:

2.2 AIR CONDITIONERS WITH WHICH THE SMART ROOM THERMOSTAT AC400 IS COMPATIBLE

- Airfel
- Airwell
- Alarko Carrier
- Altus
- Arçelik
- Artiko
- Aura
- Aux
- Baymak
- Beko
- Bosch
- Cartel
- Cendix
- Daikin
- Demiröküm
- Diamond
- ECA
- Ecotherma
- Electra
- Electrolux
- Eskimo
- Fairline
- Falke
- Flair
- Fluo
- Fuji
- Fujiplus
- Fujitherma
- Fujitsu
- Galanz
- General
- General Electric
- Gree
- Haier
- Hisense
- Hitachi
- Hotpoint
- Iklimsa
- Islsan
- Klimasan
- Kumtel
- Lg
- Midea
- Mitsubishi
- Mitsubishi Electric
- Nexon
- Nordstar
- Olefini
- Sanyo
- Seg
- Sharp
- Siemens
- Sigma
- Sunny
- Tci
- Teba
- Toshiba
- Tosot
- Vaillant
- Vessen
- Vastel
- Viessmann
- White-Westinghouse
- York
- Zass
- Zibro

2.3 MOBILE APPLICATION-MODES

With AC400's Home- Sleep- Outside- Program- Location and Manual mods, you can control air conditioner anytime for more comfortable living space.

Home Mode, will fix temperature on set value. Recommended to use when you are at home.

Sleep Mode, provides comfy sleep with the set temperature you desire. You can use this mode between 11 pm to 7 am which is common sleeping hours.

Outside Mode is suggested to use when you are outside of your house for short or long time.

Program Mode allows you to program weekly as 30 minute time periods which will automatically change temperature in your home with your program.

Location Mode reduces the temperature of your home when you move away from home or increases the temperature of your home when you approach.

Manual Mode allows you to configure working of air conditioner. You can instantly select heating, cooling, fan speed and set a timer.

2.4 LED LIGHT COLOR EXPLANATIONS

White	Air Conditioner is off.
White Flashing	Air Conditioner is off, device has no internet connection.
Turquoise	The device is in Manual Mode.
Turquoise Flashing	The device is in Manual mode but, no internet connection.
Orange	The device is in Home Mode.
Orange Flashing	The device is in Home Mode but, no internet connection.
Blue	The device is in Outside Mode.
Blue Flashing	The device is in Outside Mode but, no internet connection.
Yellow	The device is in Sleep Mode.
Yellow Flashing	The device is in Sleep Mode but, no internet connection.
Pink	The device is in Program Mode.
Pink Flashing	The device is in Program Mode but, no internet connection.
Green	The device is in Location Mode.
Green Flashing	The device is in Location Mode but, no internet connection.
Purple Flashing	The device is ready for setup and the access point is active.
Red	The device's software is being updated.

2.5 TECHNICAL DATA

Power supply	
Feeding Voltage	5V (DC)
Load Current	250 mA maksimum

Operational data	
Temperature Measurement Accuracy	0.1ºC
Temperature Setting Accuracy	1.0ºC

External conditions	
Working temperature	(0ºC) – (+45ºC)
Operating Temperature	(-10ºC) – (+50ºC)
Storage Temperature	(-10ºC) – (+50ºC)

Standards	
The Radio Equipment Directive	2014/53/EU (R&TTE/RED EN 301 489-1 V2.1.1:2017, EN 300 220-1 V3.1.1:2017, EN 301 489-3 V2.1.1:2017, EN 300 220-2 V3.1.1:2017, EN 62479: 2010, EN 60730-2-9:2010, EN 60730-1:2011)
Electromagnetic Compatibility Regulation	2014/30/EU (EMC EN 61000-6-3: 2007 + A1: 2011, EN 61000-6-1: 2007
Low Voltage Directive	2014/35/EU (LVD EN 60730-2-9:2010, EN 60730-1:2011)

General data	
Weight (including package)	328 g
Color	Black
Material	PC

⚠ **WARNING!**
Risk of fire and injury from short circuit!
Connect the adapter to a grounded electrical plug.

⚠ **WARNING!**
The product is subject to European Directive 2012/19 / EU as it is included in the category of electronic products.
It cannot be treated as ordinary waste. You can leave the product in an appropriate electronic waste collection site.
Comply with all local and applicable laws and regulations.

2.6 DIMENZIONS
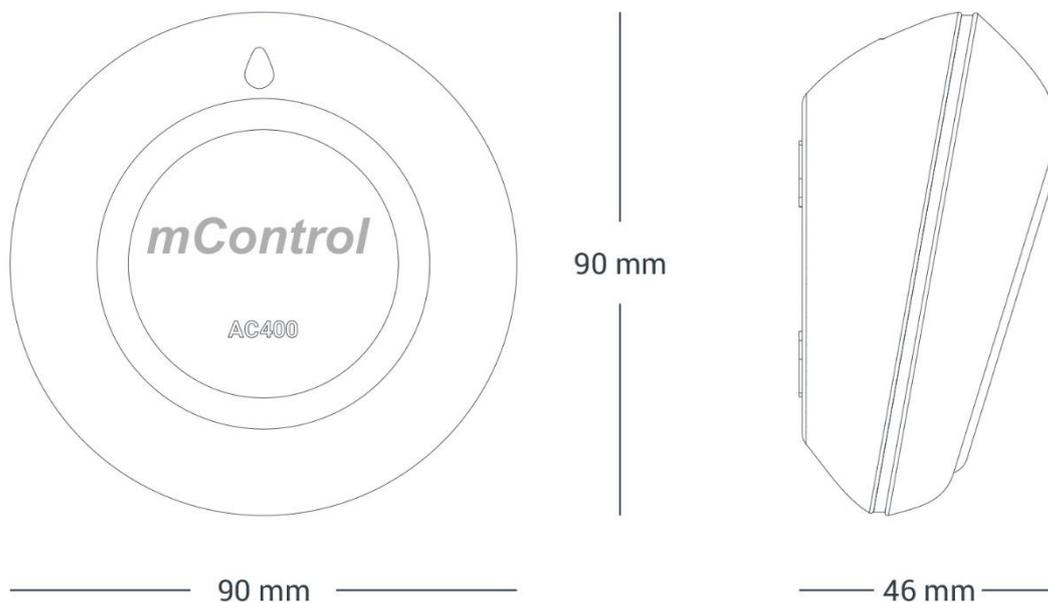
3. WARRANTY CONDITIONS

1. Warranty starts at the delivery date and warranted against manufacturing defect for 2 years.
2. Device is delivered to customers in operation. Mounting and other connections will be additional fee for service.
3. Devices will maintenance and repair in our factory and should send by contracted transportation company. For out services, transportation and accommodation of service personnel are covered by customers. Overtime is added on service charge and is received as cash proceeds.
4. Maintenance of devices and apparatus will be in our factory. For device maintenance, the round travel fares are covered by customers.
5. If devices are malfunction in warranty duration, devices will be inspected in our factory to find out whose responsibility (manufacturer or customer) and will announce to user by report.
6. Devices, which malfunctioned in warranty duration and found out it is responsibility of manufacturer, customer can demand new product or repair which all costs will fulfilled by manufacturer regarding to cost is not higher than device.
7. After inspection of malfunction and detected that, it is customer's fault, repair cost of the device which still in warranty duration will be customer's responsibility.
8. Customers should be aware of damages (if there is any) of product and warn manufacturer since the day warranty duration starts. If customer do not warn manufacturer with knowledge of damage, customer lose the rights of article 6.
9. Devices and apparatus should be used as specified in User's Manual if not used as specified, products are out of warranty.
10. If products damaged, scratched or cracked by customer. The products will be out of warranty conditions.
11. Damages/Malfunctions because of using other brand' s and model' s devices and apparatus without knowledge of manufacturer are out of warranty.
12. The arising depredation owing to working in humid and acidic places and result of rusting, oxidation is out of warranty.
13. The transport damage is out of warranty. Customers can take a transportation insurance.
14. Damages by virtue of grid voltage are out of warranty.
15. Damages because of force majeure like flood, earthquake, fire etc. are out of warranty.
16. All parts of the product are under warranty of our company.
17. If product breaks down and gets fixed in warranty duration, duration of maintenance adds to the warranty duration. Products repairment can't exceed 20 work days. This duration starts when the product's problems are reported to the seller, agency, producer or the importer if there is no service station. Consumer can report the problem by; fax, e-mail, registered and reply paid letter or a similar way. If a conflict happens, the consumer has the responsibility of proofing it. If the problem can't be solved more than 10 days the producer or importer has to supply a similar device until end of the reparation. If the product breaks down because of material, label or mounting faults in the warranty duration, firm won't demand label costs, changing parts or any other kind of charge for repairment.
18. Despite consumers rights of maintenance;
    a. If the product breaks down for 4 times in a year or 6 times in warranty duration and these problems effects main purpose of the product. (starting from delivery time during warranty.),
    b. Exceeding the maximum repairing term,
    c. In the case of not existing service station, determining that repairment is not possible with the report compiled by respectively service station's seller, dealer, agency, legation, importer or manufacturer.
19. Warranty document should be kept by customer until warranty duration is finished. If warranty is lost there will be no replacement. All maintance and repair cost is responsibility of customer in case of warranty document lost.