

## BIASI APP Connect Kit WiFi Connection Device Instruction Manual

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Instruction, installation, and use handbook

“APP Connect”



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## General Information

**APP Connect” kit** is a “Wit Connection device” that operates in the WLAN home network, allows controlling the ambient thermoregulation and the boiler’s operation, both locally and remotely, by means of a dedicated **APP**

This section contains both the instructions for the installation of “**APP Connect** Kit and the instructions for the configuration and use of the app to control the system remotely using a smartphone

The APP/device can control the systems equipped with this kit via the web; the same system can be controlled by means of several smartphones featuring the APP and duly set with it’s credentials



### WARNINGS:

Carefully read the warnings included in this manual

- **APP Connect” kit** is intended only for use for which it has been expressly designed, any other use is to be considered as improper and dangerous
- the installation of the appliance must be performed **ONLY** by professionally qualified personnel operating in compliance with the national and local regulations in force, and with the indications included in this manual
- The manufacturer is not responsible for any damage caused by
  - Use contrary to the intended use or failure to follow the indications in the instruction manual and/or safety instructions;
  - Carelessness, accidents or normal wear,
  - External influences/agents (e.g.. damage caused by vibrations, excessive heat, water, humidity, acids....);
  - Use of unsuitable accessories
  - Loss of the settings made by means of the APP due to failed power supply, even temporary, of the WFC device
- if necessary, contact expert personnel also during the installation and/or configuration of the APP or network

connections

To ensure a correct operation of the appliance, installation must be performed exclusively indoors, in dry places far from strong electromagnetic fields.

- The type of control that can be carried out by means of the **APP Connect™** kit is to be considered as temporary. The programming and general control of the boiler is to be carried out by means of the Remote Control (or the boiler's control panel, in special cases).

## APP compatibility

- Smartphones with Android 4.4 or higher
- Not compatible with tablets or other devices other than Smartphones, even if equipped with the correct Android version
- iPhone, iPad e iPod touch with iOS 8.0 or higher

All product names, logos, or brands are the property of their respective owners. All company product names up in the document are for identification purposes only.

## Cleaning

It is possible to clean only the device's plastic coating. Cleaning can be performed using a damp cloth. It is forbidden to use abrasive or powder detergents.

## Kit composition

- n° 1- "Module WFCOI" **[WiFi Control]**
- n° 1- Power supply unit
- n° 4- Eyelets with screws for wall fixing
- n° 2- Expansion plugs with screws for wall fixing

## Required accessories

This device works only in combination with the **original** Remote Control Kit.

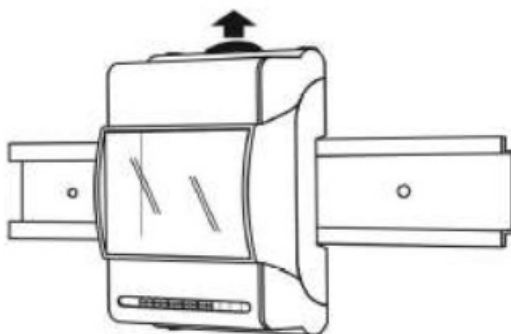


## Mechanical installation

Check that there is an adequate signal of the WLn network at the installation point of the Module WFCOI™ and that there are no metal/conductive surfaces nearby since they may affect reception.

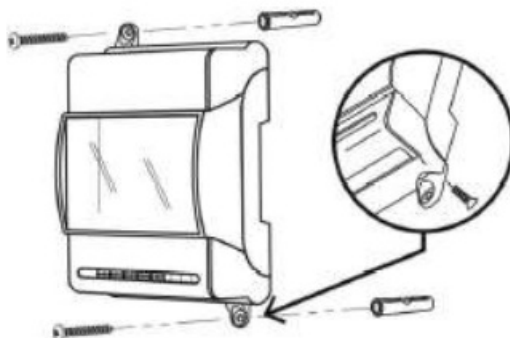
## On DIN rail

The Connect Box can be installed on DIN rail, duly preset for easy hooking and release, pull the indicated black hook



## On-wall

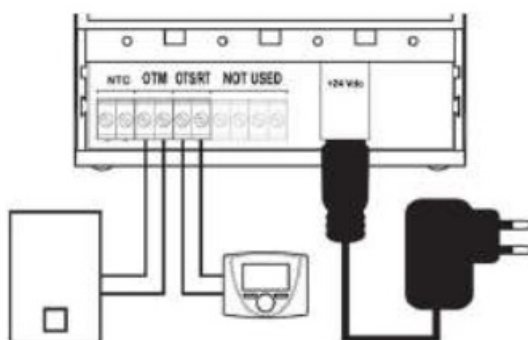
Fit the plastic eyelets on the BOX body using screws, then fix the “Module WFCOI” to the wall using the expansion plugs. All the above-mentioned material is supplied with the kit



## Electrical connections

with BOX not powered

- connect **OTM** terminals of the “Module WFCOI” to **TA** terminals of the boiler (see the Wiring Diagram in the boiler’s booklet],
- connect **OTS/TA** terminals of the “Module WFCOI” to **OT no. 1-2** terminals of the Remote Control (see **paragraph 1** of its booklet]



Terminals	
NTC	Not used The external temperature probe, if present, must be connected to the boiler's board; the ambient temperature probe is integrated into the Remote Control
OTM	Signal connection to the boiler
OTS/RT	Signal connection to the remote control
+24Vdc	Connector for a power supply unit

**Never connect any of the mentioned connections to the 230V power supply.**

Insert the power supply unit connector (supplied with the kit) in the “Module WFC01” and connect the power supply unit to a socket to power everything up.

## Configuration

Required material:

- “Module WFC01” powered and connected
- Modem/router with an Internet connection and active WIFI network, functioning and stably receivable at the installation point of the “Module WFCO 1 “
- Android smartphone or iOS device with “APP Connect” installed

## Operation phases (preliminary summary):

- in the first configuration phase of the “Module WFC01”, the BOX itself creates a temporary Hotspot, namely it generates a WiFi network to be used only for:
  - entering, by means of the smartphone and “APP Connect”, the credentials of your WiFi network (that will be used by the “Module WFC01” during its operation)
  - choosing a password to allow smartphones (yours and any other one) to access the control functions of boiler and system
- then, the Hotspot of the “Module WFC01” is disabled and the communication between the smartphone and “APP Connect Kit occurs via WEB and through your Wifi network

## “APP Connect” installation

install the "BIASI Connect suitable for your operating system (from Google Play Store or Apple App Store, see also APP compatibility on page 11)

 <a href="http://play.google.com/store/apps/details?id=it.bep.brc.bsgbiasi">http://play.google.com/store/apps/details?id=it.bep.brc.bsgbiasi</a>	 <a href="https://apps.">https://apps.</a>
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NB. During the installation and use, the APP could ask for acceptance of conditions, and permission to access to some contents and function of your device

### **"Module WFCOI" configuration**

when the "Module WFCOI" is powered for the first time, it automatically generates its own Wifi network (Hotspot), which can be found among the wifi sources available from the smartphone and is identified by the name of:

BP\_WFC\_OEM\_A POXOOXX

where the last 6 digits are the same 6 digits of the MAC address of the device [without (:), included on a label partially visible from the window)

- on your smartphone, with active Wifi, access Settings »> Wireless and networks [or similar, depending on the system and version)
- Search for the name of the Hotspot transmitted by the Module WFCOI" and connect your smartphone to it No password is required [the indication "Internet may not be available" or similar is normal since it is an internal network
- In the case you cannot see the Hotspot name in the list, try to
  - move your smartphone closer to the "Module WFCOI"
  - perform a total reset of the Module WFCOI" (see Module WFCOI" total reset on page 14)



- Start the APP Connect
- of at this point, you are adding a “Module WFCo” on a smartphone which already features other “Module WFC9]”, go to paragraph Adding a “Module WFCOI” on page 13

#### Detection of the first “Module WFCO1”

- Since the APP has just been installed and there is yet no “Module WFC9]” configured, the first “DEVICES” installation page will open

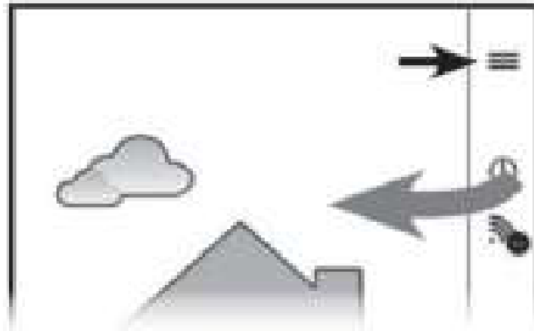


**NOTE** the indicative AC device (acronym of Heating Ventilation and Air Conditioning, in this case, refers to the Motl we give the AP communicates with the system through the Moul WFCO

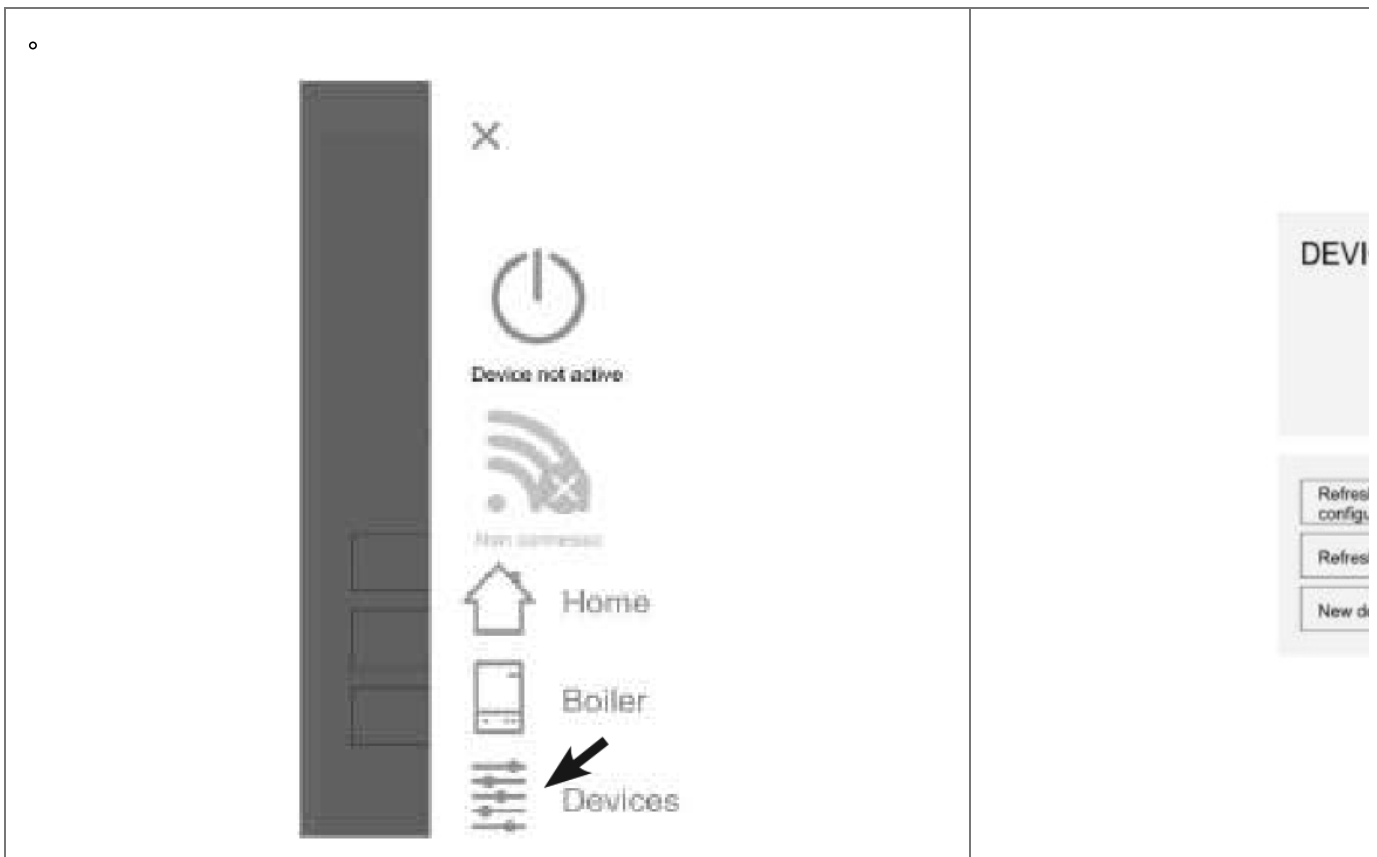
- Click on Wizard installation and go to paragraph "Module WFCO1" guided installation on page 13

## Adding a "Module WFCO1"

- Open the side drop-down menu dragging it towards the left or by clicking on the icon



- Click on **Devices** and, in the screen showing the Module wrote" already configured, click on **New device**



Click on Setup Wizard and proceed



## "Module WFCO1" guided installation



- After detecting the new “Module wool”, enter Phase I – VERIFY CONNECTIVITY where you will establish a connection between the APP and the Module WFCO1”



- Click on Start verify; after a short time, the DEVICE IDENTIFICATION screen will be displayed (Phase 2) to create the credentials necessary to check the Module WFCO]” from the APP



the default Device name is displayed [it ends with the last 6 digits of the MAC address of the Module WFCO]” and can be modified as necessary This is useful in case you want to configure other systems (i.e.: other Module WFCO]”) at a later stage, for example, you could name them City house” and Country house”

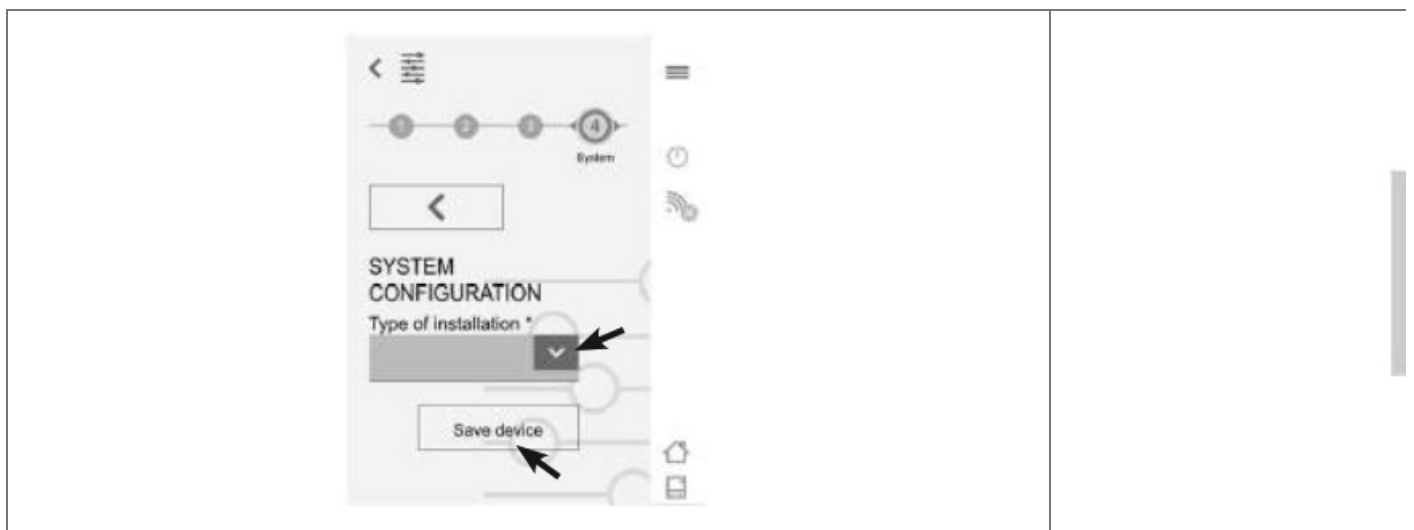
- Create and enter a univocal login Password [at least 6 characters] for this specific device ( = system / “Module WFCO]”) The\_password\_is mandatory
- Since no password recovery procedure is provided, note down the Device name and Password to retrieve them in case of replacement or reset of the device or if the APP is reinstalled
- In the event of a total Reset or reconfiguration of the “Module WFCO]”, it will instead be possible to enter the same Device name and Password again with the advantage of keeping the configuration valid on all other smartphones
- In case of loss of the credentials, perform a Module WFC9]” total reset (see page 14], create new ones, Reconfigure the “Module WFCO]” as described in this paragraph and, if other smartphones are enabled to control the system(s), enter the new credentials also in them.

Press ➤ and go to Phase 3 – CONNECTIVITY SETTINGS, where you will enter the data that will allow the Module WFCO]” to access your Wifi network and be reachable via WEB



- in the menu “Connection mode” leave (or select) the default setting “Automatic, local and remote”
- in the menu “SSID WiFi”, select the name of your WiFi network among the detected and listed ones If your WiFi network is hidden, select “Enter manually”, which is the last item of the list, and enter the WiFi exact name
- Enter the Password of your WiFi network in the third Is not possible to connect the device to a WIFI network without a password.

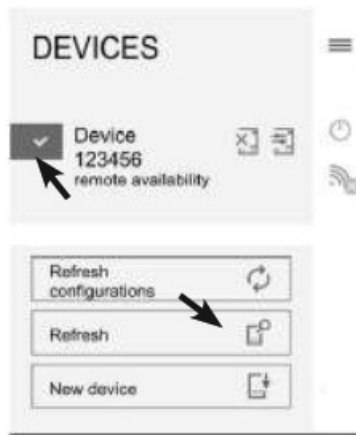
Press ➤ and go to Phase 4 – SYSTEM CONFIGURATION, where you just have to select the name of the boiler from the menu “Type of installation”.



- Click on Save device; wait for the short saving time to end until the “Installation complete” screen is displayed to confirm that the operation was successful, and click on the checkmark button

Now, the configuration is complete and the

- “Module WFC01” disables its Hotspot ☐ on your smartphone, access Settings > Wireless and networks, and reconnect it to your usual WiFi (home) network



- The identification code of your device is now visible on the display. The checkmark indicates that the data exchange with the device has been
- If the device is “not available”, search for availability through the Refresh command. “Module WFC01”

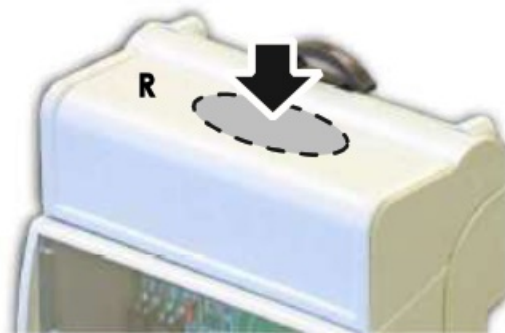
**Configuration is complete.**

### “Module WFC01” total reset

The Total reset (reset to factory settings) is to be performed only in exceptional cases, for example:

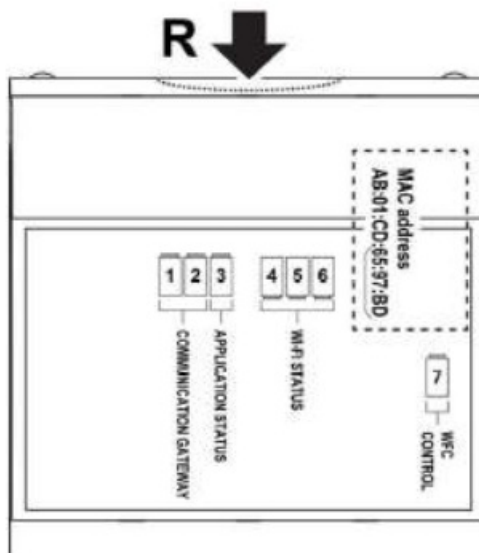
- when trying to restore operation after device’s malfunctions that could not be diagnosed
- in case of loss of the credentials necessary to access the device
- Hold **R** key pressed for at least 10 seconds until the green LED 3 starts flashing.

Note: the **R** key is inside the box and is activated by pressing the upper cover at the center of the area shown in the figure:



- Release the R key; LEDs 4-5-6 start flashing noticeably randomly”

Note: after a **Total reset**, it is necessary to configure the Module wFC01” again (see Module WFC01” configuration on page 12)



### Controls and Indicators of the “Module WFCO1”

	Description
R	Reset button
1	<b>YELLOW:</b> OTM (boiler) connection status
	<b>OFF:</b> lack of communication with the boiler or open contact
	<b>ON:</b> regular communication with the boiler
	<b>FLASHING</b> (quickly '1/2 sec.): communication error with the boiler or the remote control
	<b>FLASHING</b> (slowly 2 sec.): Request to the boiler in progress (generated from APP+WFC or from Remote Control)

2	<b>YELLOW:</b> OTS (remote control) connection status
	<b>OFF:</b> no connection (open contact)
	<b>ON:</b> regular communication with remote control
	<b>FLASHING</b> (quickly 1/2 sec.): Communication error with the boiler or the remote control
	<b>FLASHING</b> (slowly 2 sec.): OTS contact closed (not provided for in this application)
3	<b>GREEN:</b> "Module WFC01" status
	<b>OFF:</b> normal operation
	<b>FLASHING</b> (quickly 'A sec.): Total reset in the start-up phase
4	<b>RED:</b> WiFi connection status
	<b>OFF:</b> Associated with WiR network

	<p><b>FLASHING</b> (quickly 1/2 sec) NOT associated with wifi network or [with LED 6 flashing slowly) Hotspot activated</p>
5	<p><b>YELLOW:</b> Wii data</p>
	<p><b>FLASHING</b> during dart traffic on Wif</p>
6	<p><b>GREEN</b> ICP connection</p>
	<p><b>ON</b> ICP connection active</p>
	<p><b>FLASHING</b> (quickly 1/2 sec. No valid IP address or configuration mode</p>
	<p><b>FLASHING</b> (slow 2sec. Valid IP address [(normal wifi operation) or [with LED 4 flashing quickly Hotspot activated</p>
7	<p><b>RED:</b> Wi Control [WFC</p>
	<p><b>ON:</b> WRC active (the boiler status is determined temporarily, from APP+gmat phone)</p>
	<p><b>OFF:</b> the boiler status is determined from the remote Control</p>

## System control

**IMPORTANT:** Remember that the default and main control device of the system is always the Remote Control and not the APP on the smartphone

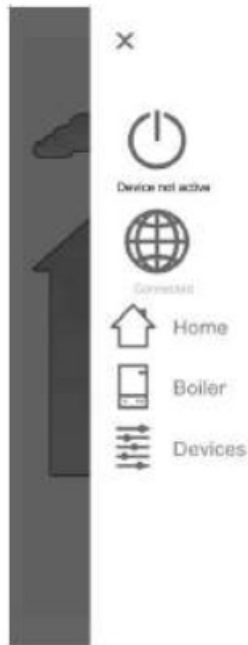
**The control through APP is always temporary (timed). The system will always go back to the operation based on the settings of the Remote Control at the end of the activation time. The activation and timing can be changed at any moment: see the Activation and timing of the device on page 16 for details.**

### APP start-up and information


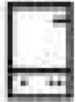

- At start-up, the APP shows the system's current status (or the status of the last system/ "Module WFC01" connected, if connections to several devices have been configured)
- Different system's values can be viewed and edited, such as the set ambient temperature
- A blank screen (data not shown) indicates that the "Module WFC01" of the system is already connected to another smartphone. After a very short time, during which the APP tries to establish a connection, the information that the device is busy, is displayed
- The APP is easy to use and intuitive. The function of the main symbols/buttons is explained below



The home page and side menu closed







There are 3 main functions or menus:

Symbol	Description
	Home (status of the system and peripheral devices)
	Boiler (status of the temperatures and other information on the boiler)
	Devices (where it is possible to view the status and the options of the “Module WFC01” and select other devices, if available)

Other controls and/or indicators




Symbol	Description
	Device activation/deactivation button When the device is activated from the App commands can be sent from the
 	smartphone to the “Module WFC01”. When a device is enabled in an APP, it will not be available for any other smartphone connected at a later stage, which will show a blank screen.
	Internet -Indicates that the APP is connected to the “Module WFC01” via the Internet (the WiFi home network to which the “Module WFC01” is connected does not reach the smartphone)
	WiFi – Indicates that the APP is connected to the “Module WFC01” via the WiFi home network

### Activation and timing of the device Activation

Click on , the following menu options:




Select the type of activation and click on the checkmark button :

- **“Enable device”**: allows you to temporarily check the activation of the device. Warning: when the APP is closed, the device will be disabled;
- **“Activate device timing”** allows setting a time interval from 00h30' to 124h30' in steps of 30 minutes +/-:



### Modification of timing or deactivation



To deactivate or modify the timing, click : the following menu opens:



Select the type of activation and click on the checkmark button ✓ :


- “Enable device” sets, without any other step necessary, a 24-hour default time;
- “Activate device timing” allows setting a time interval from 00h30' to 124h30' in steps of 30 minutes +/—:
- “Enable device” sets, without any other step necessary, a 24-hour default time starting from the moment the command is given;
- “Cancel timing” forces the system to be immediately controlled by the Remote Control again;
- “Activate device timing” allows setting a different timing starting from the current moment



At the end of activation time, the button  is again .

## Alarms

### Boiler's alarms

If the system “Module W FC01” **Kit – APP – Remote Control** is working, the APP will show the symbol  on the side drop-down menu. By clicking it, the alarm code “E...” will show, with a short description and some instructions.



On the boilers handbook, you'll find a dedicated paragraph and a table that lists the possible alarms and relevant, more detailed instructions.

We suggest you read it and call the Assistance Service whenever you have difficulty solving the problem with the procedures reserved for the User.

Note: as in all cases of malfunctioning of any device, the alarms provide an indication of the most probable cause (to be investigated first) but not exclusive of other problems, to be fixed by the Technician.

## Kit-related alarms: E91 – E94

In case of failure of the system **Kit BOX WFC – APP –**

**Remote Control**, the APP will show the symbol  on the side drop-down menu. By clicking it, one of the alarms listed below will show, with a short description and some instructions.

**E91** This alarm showing on the APP can be triggered by different causes. Please, **look at the boiler's display** and read the alarm code shown on it:

- if the alarm **E91** is present on the boiler's display too, means that the error is specific to the boiler and therefore it is necessary to refer to its instruction booklet

**E94** This alarm showing on the APP can be triggered by different causes. Please, **look at the boiler's display** and read the alarm code shown on it:

if no error code is displayed on the boiler, the problem is probably located on the link (interrupted or subject to noise) between the "Module WFC01" and the Remote Control (see also Electrical connections on page 12). In case of interruption, the Remote Control's display should be off;

Notes \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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**Documents / Resources**

	<a href="#">BIASI APP Connect Kit WiFi Connection Device</a> [pdf] Instruction Manual APP Connect Kit, WiFi Connection Device, APP Connect Kit WiFi Connection Device
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**References**

- [User Manual](#)

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