BACnet Guide

V1.1 - 03/26

inBiot

Tabla de Contenidos

BACnet Configuration

Download App

Parameters such as BACnet ID, BACnet Name, as well as setting up a static IP address, can be configured in the inBiot setup app.

You can download this application through the links to the stores or by scanning the following QR code.

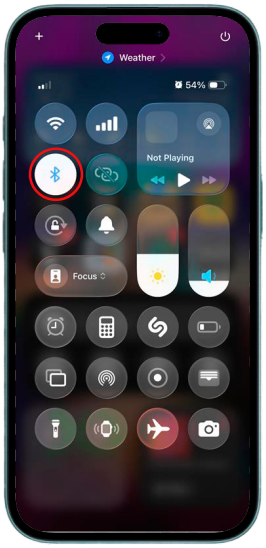
Download on the App Store

GET IT ON Google Play

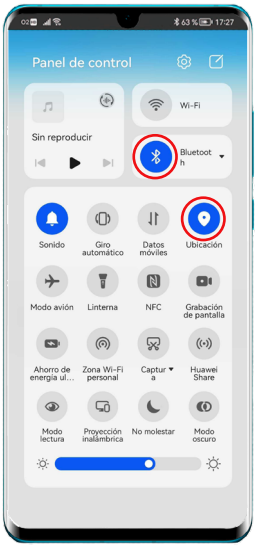
Setting up BACnet

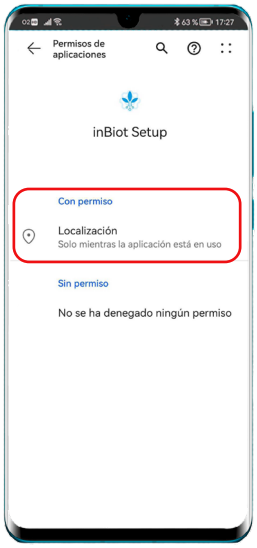
Before you begin

1. Remember to turn on Bluetooth on your phone. For Android, also turn on location and make sure the app has permissions to use it.



iOS (iPhone)

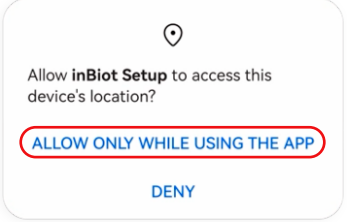




Android

2. Open “inBiot Setup” app. If a message appears requesting permission to use the location, allow the app to use it.

inBiot Setup

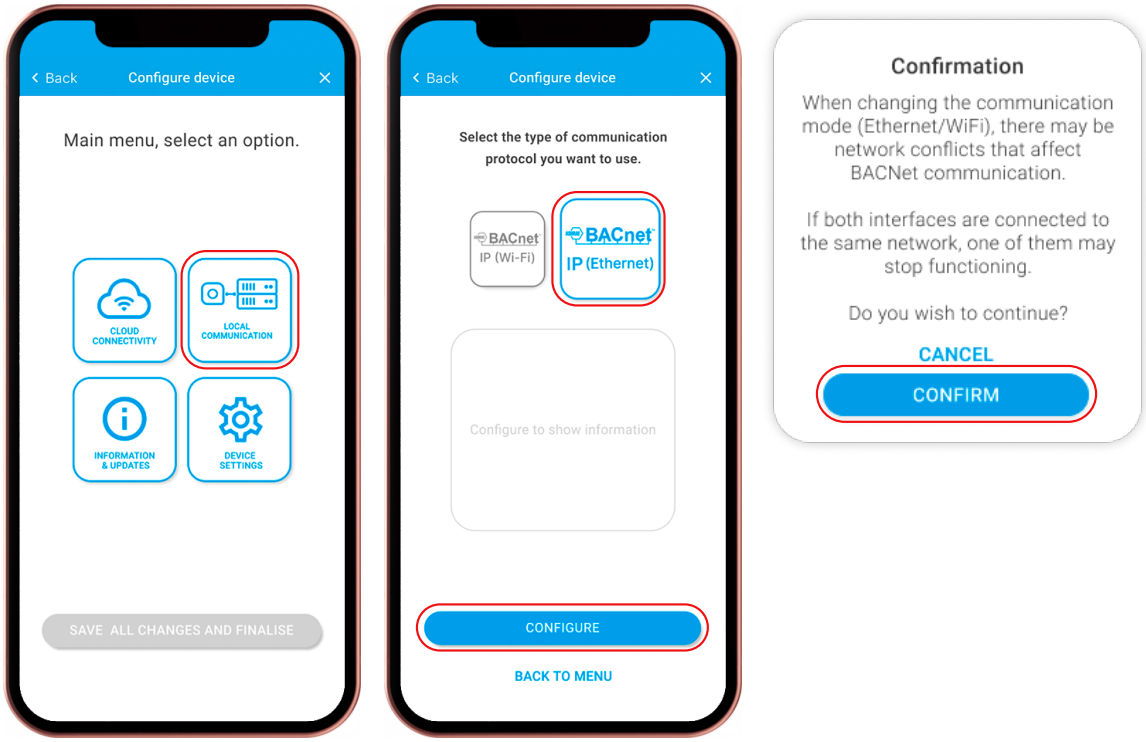


BACnet IP (Ethernet)

1. On the Main Menu[1], select the option LOCAL COMMUNICATION.

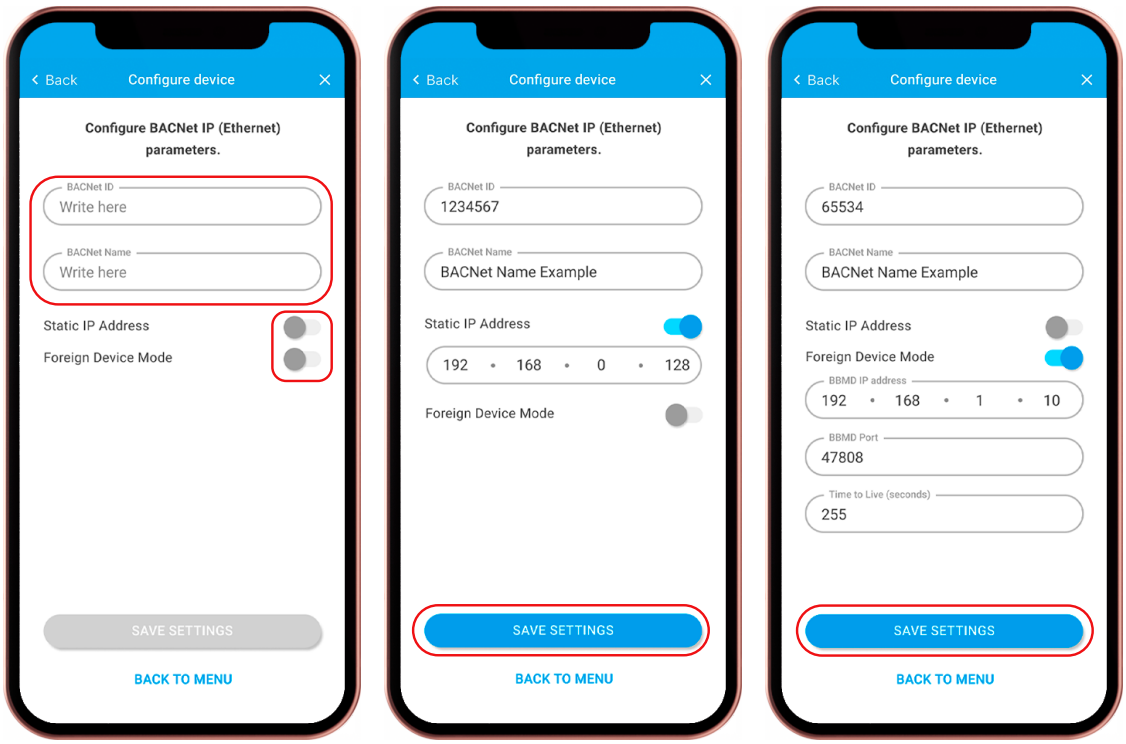
2. Then, select the correct installation type, in this case Ethernet and press CONFIGURE.

Note: If you're changing the communication potocol (Wi-Fi --> Ethernet), a warning will appear explaining that if both interfaces are connected to the same network, one of them may stop functioning. To continue press CONFIRM.



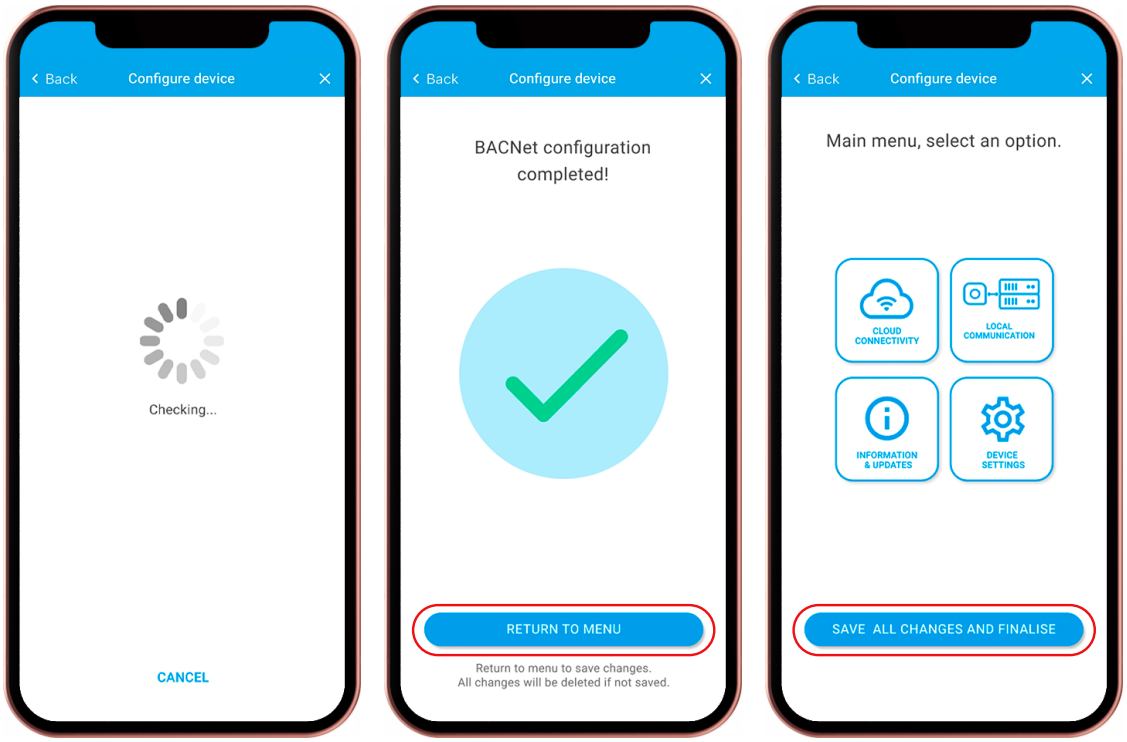
3. Next, enter the BACnet ID and name. If you wish to setup a static IP address or activate Foreign Device Mode, you must turn on the switch for those options.

4. When you're done press SAVE SETTINGS.



[1] To know how to enter the Main Menu, go to the Configuration Manual, page 5.

5. Wait while the settings are processed and once the configuration is complete, remember to return to the Main menu and save the changes.



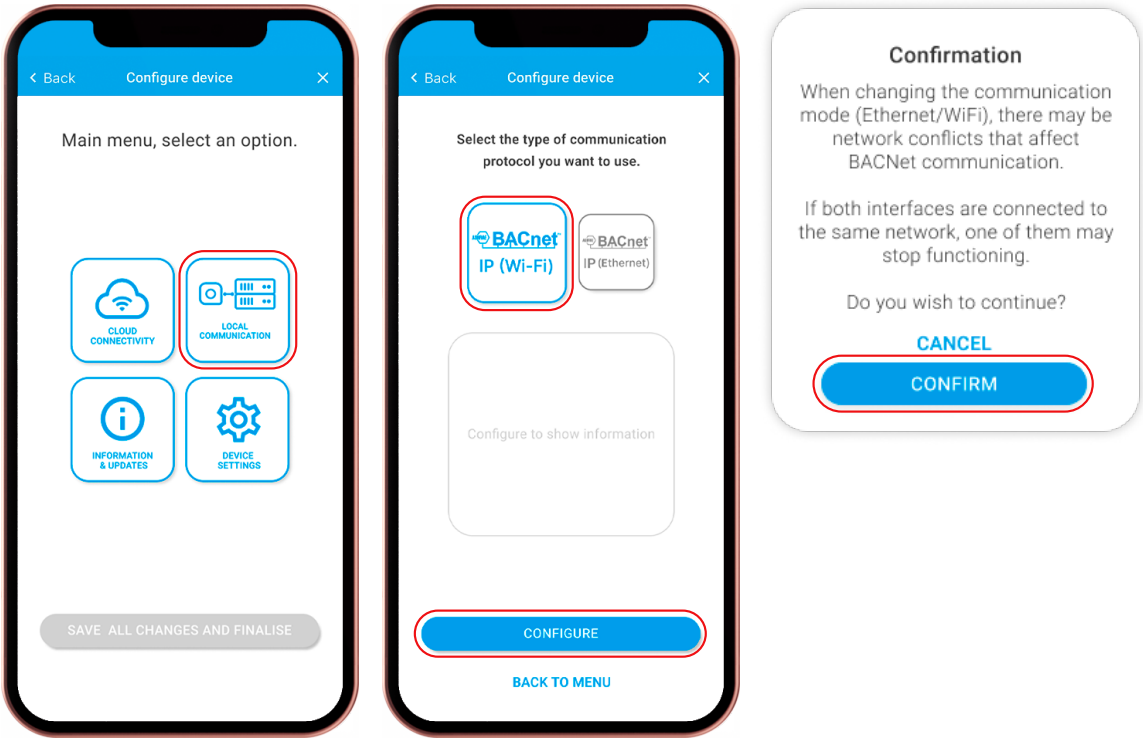
Note: Make sure that the static IP you are introducing does not collide with any IP already used in the network. The device might not be able to interact properly with the network and other device's connection might also be altered.

BACnet IP (Wi-Fi)

1. On the Main Menu[1], select the option LOCAL COMMUNICATION.

2. Then, select the correct installation type, in this case Wi-Fi and press CONFIGURE.

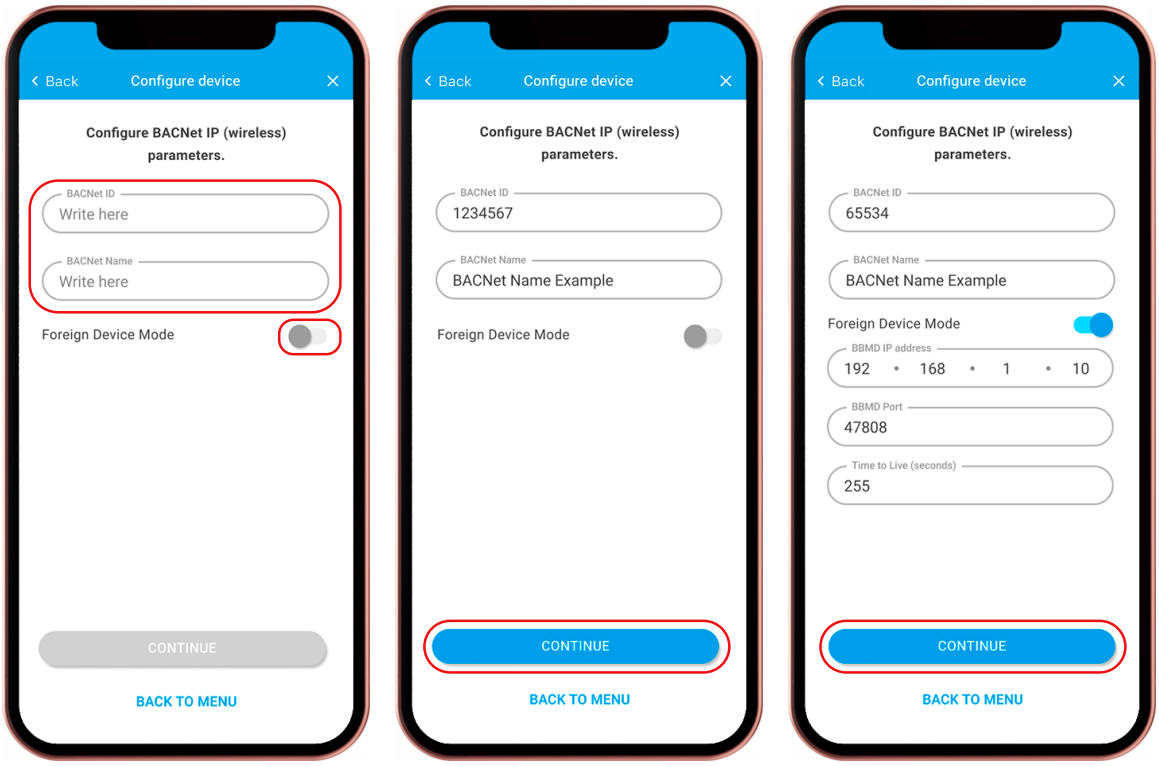
Note: If you're changing the communication potocol (Ethernet --> Wi-Fi), a warning will appear explaining that if both interfaces are connected to the same network, one of them may stop functioning. To continue press CONFIRM.



[1] To know how to enter the Main Menu, go to the Configuration Manual, page 5.

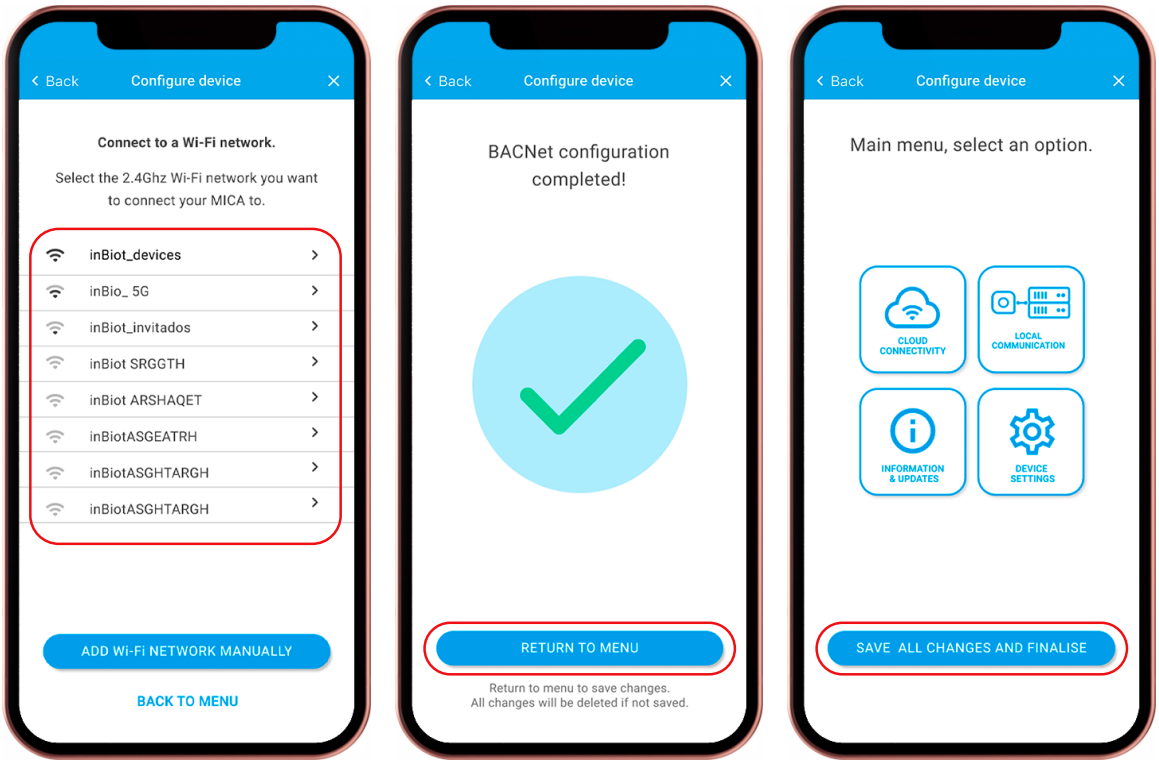
3. Next, enter the BACnet ID and name. If you wish to setup Foreign Device Mode, you must turn on the switch for that option.

4. When you're done press CONTINUE.



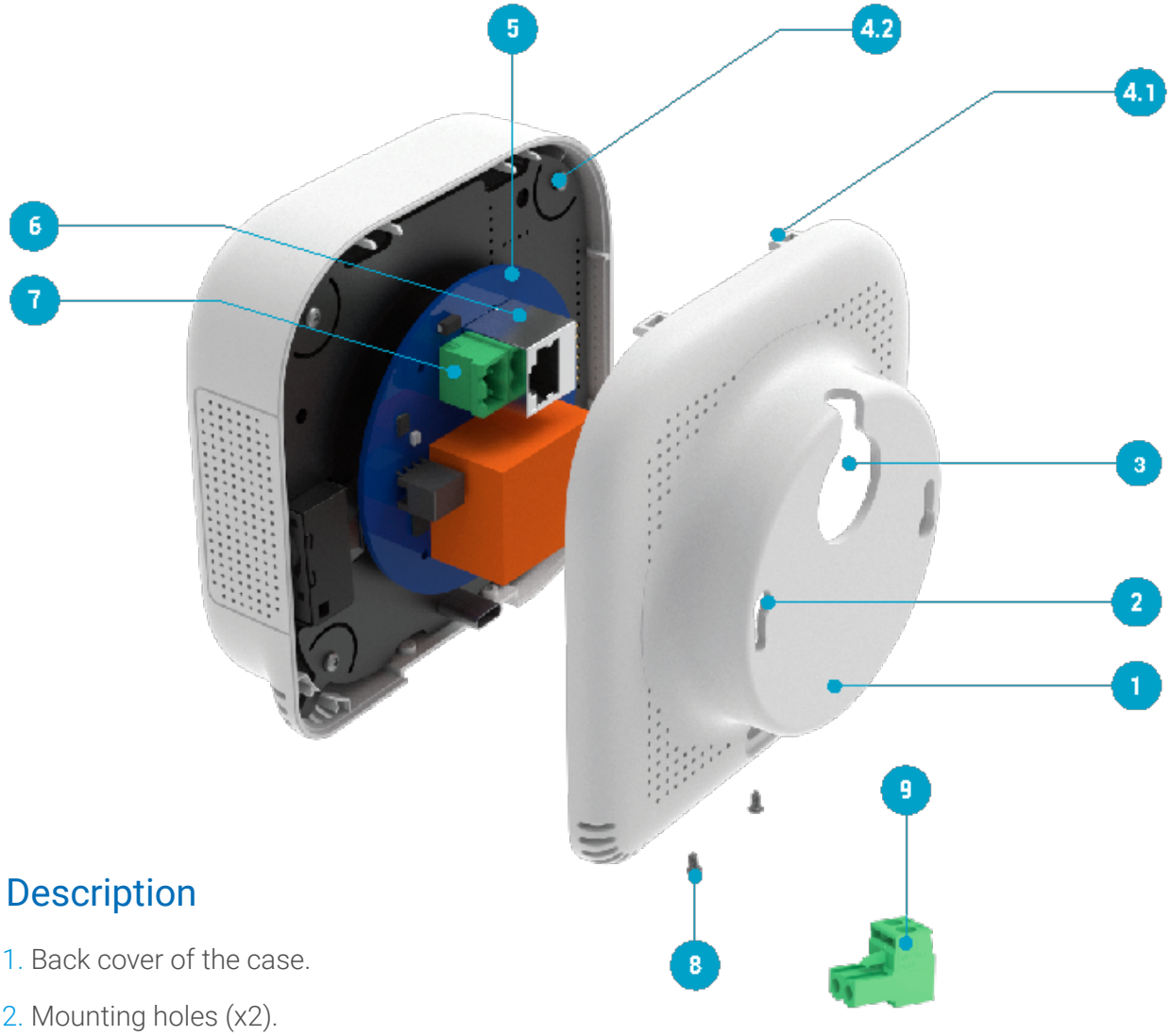
5. Select the Wi-Fi network you want to connect to, and follow the steps required to connect to the network.

6. When the configuration is complete, remember to return to the Main menu and save the changes.



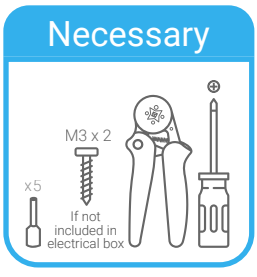
Device Installation

Parts and pieces



Description

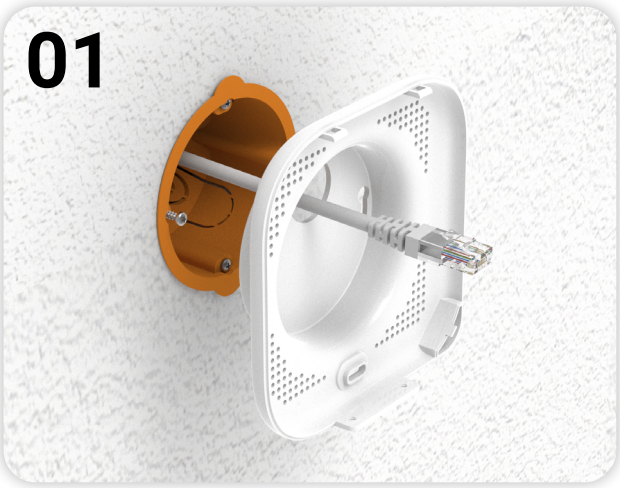
1. Back cover of the case.
2. Mounting holes (x2).
3. Cable inlet.
4. 1) Assembly hooks (x2).
   2) Assembly guides (x2).
5. Electronic Motherboard (MOBO).
6. Female Ethernet terminal.
7. Female power terminal.
8. Assembly screws (x2).
9. Male power terminal.

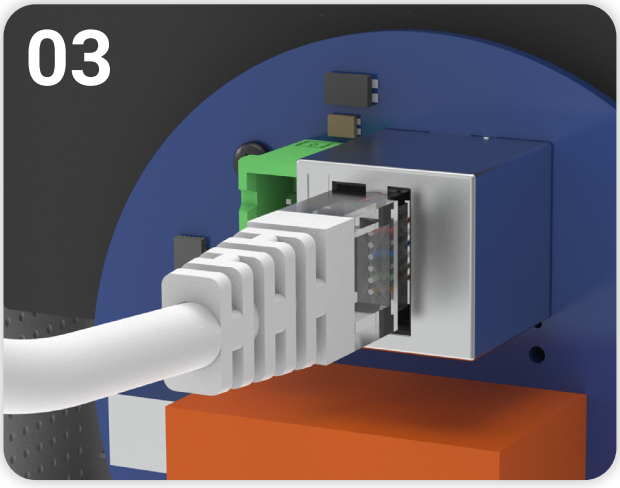


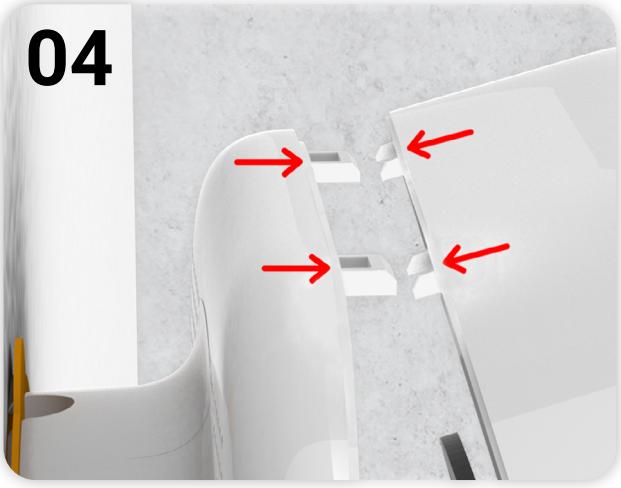
Note: The recommended height for installation is 120 - 180cm.

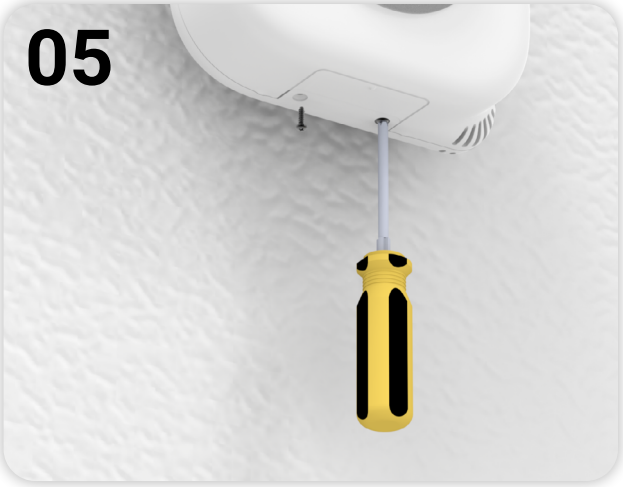
BACnet IP (PoE)

Steps to follow









Description

1. To begin, run the power cable (PoE) through the inlet ❸ located on the back cover ❶ of the case.

2. Next, mount the back cover ❶ to the wall. To do this, insert the screws in the wall through the mounting holes ❷ and rotate the housing so that it is straight. Then, using a screwdriver tighten the screws to secure it in position.

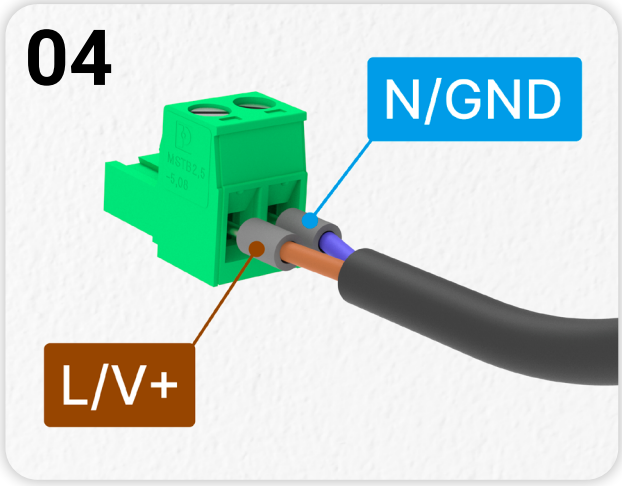
3. Connect the Ethernet cable to the female Ethernet terminal ❻ located on the motherboard ❺.

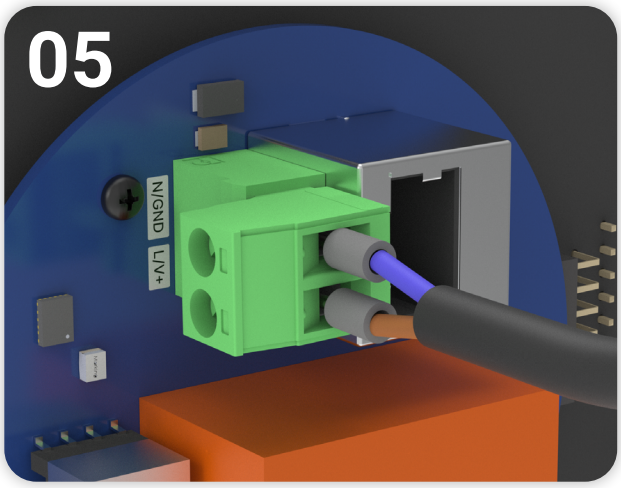
4. You can now close the MICA: Align the assembly guides ❹ with the assembly hooks ❹ (this must be done with the housing slightly tilted) and then close the back cover ❶.

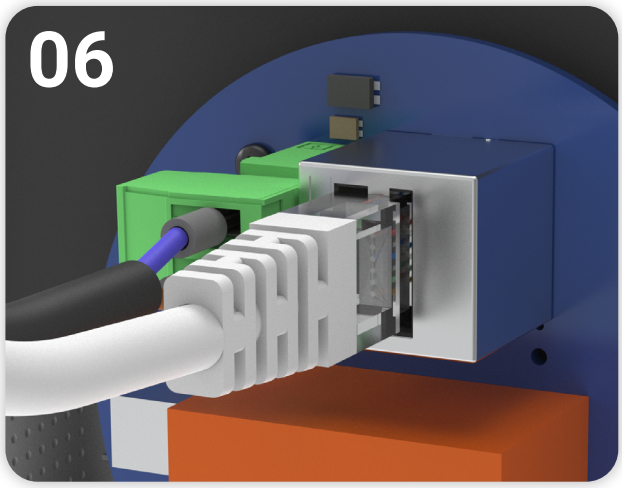
5. To finish, secure the case with the two lower assembly screws ❽.

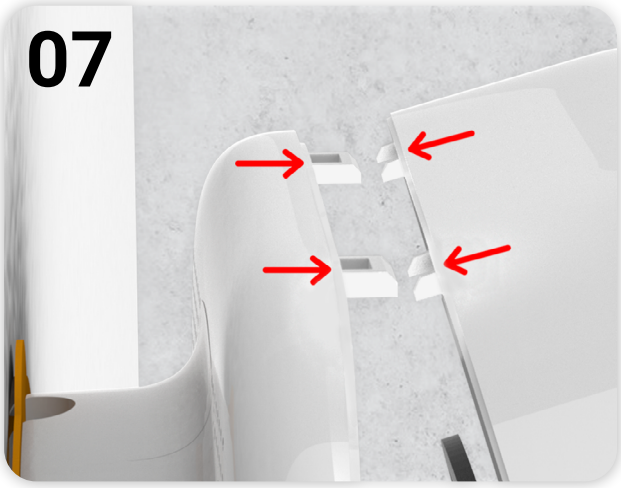
BACnet IP (110 - 240V AC / 8 - 36V DC)

Steps to follow









Description

1. To begin, run the power cable (PoE) through the inlet ❸ located on the back cover ❶ of the case.

2. Next, mount the back cover ❶ to the wall. To do this, insert the screws in the wall through the mounting holes ❷ and rotate the housing so that it is straight. Then, using a screwdriver tighten the screws to secure it in position.

3. **Before proceeding,** add ferrules to the wires on the power cable.

4. Next, connect the power wires to the male power terminal ❾ provided. If the power supply is **direct current (8 - 36V DC),** remember to respect the order of the inputs **(V+ and GND)**.

5. Connect the power cable to the female power terminal ❼ located in the motherboard ❺**.**

6. Connect the Ethernet cable to the female Ethernet terminal ❻ located on the motherboard ❺**.**

7. You can now close the MICA: Align the assembly guides ❹ with the assembly hooks ❹ (this must be done with the housing slightly tilted) and then close the back cover ❶.

8. To finish, secure the case with the two lower assembly screws ❽.

Protocol Implementation Conformance Statement

The BACnet PICS document, is a standardized document used to describe the BACnet capabilities and features supported by a particular device or software implementation.

Purpose

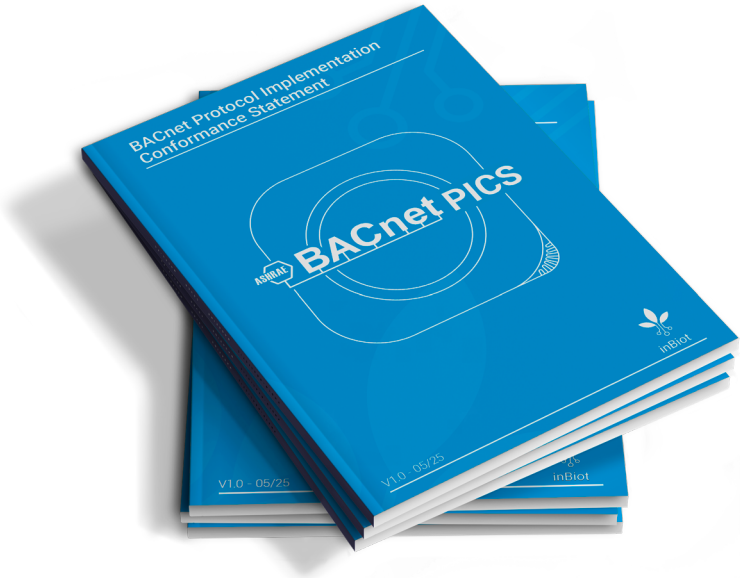
The PICS document provides a formal declaration of:

- Which BACnet services and objects a device supports.
- Conformance to specific BACnet profiles.
- Communication options (e.g., BACnet/IP, BACnet MS/TP).
- Optional features or special behaviors.
- Interoperability capabilities for integration with other BACnet devices.

Contents

The following sections are found in the PICS document:

- Vendor and product description.
- Standardized Device Profile Supported (Annex L).
- Interoperability Building Blocks (BIBBs).
- Network layer options (e.g., BACnet/IP, MS/TP).
- List of supported BACnet objects (e.g., Analog Input, Binary Output).
- Segmentation Capability.
- Device Addressing Binding.
- Character Sets Supported.



Download PICS file