

## **MAGNUM FIRST Mx-EBOX BACnet IP Gateway Instruction Manual**

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# BACnet / IP Gateway Setup Manual

Mx-EBOX





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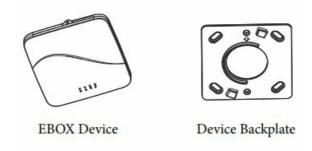
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## What's in the box?

The product package should contain the following items:

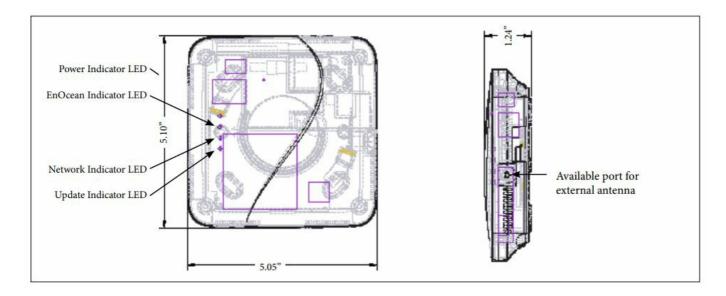
• EBOX Device

- Backplate
- 24V Power supply (optional upon request)

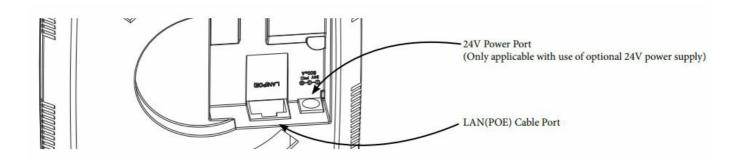


#### **Device Overview**

## **LED Overview & Dimensions**



## Port Overview (back of device)



## What you need before you begin

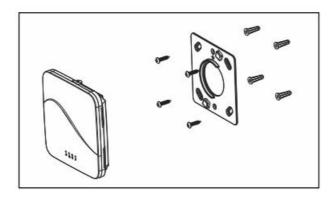
- PoE Cable
- 4 screws
- Screwdriver
- airConfig Software (<a href="https://www.dropbox.com/s/mor2z812401nhti/airConfig\_Setup.exe?dl=0">https://www.dropbox.com/s/mor2z812401nhti/airConfig\_Setup.exe?dl=0</a>)

## **Mounting Instructions**

## Screw backplate to wall or ceiling

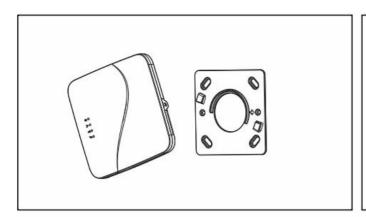
NOTE: Optimal mounting is at or below ceiling height and in conditioned environment.

NOTE: Range can vary greatly based on building materials, device positioning, interference, etc. Reference the Endogean Range Planning Guide prior to installation.

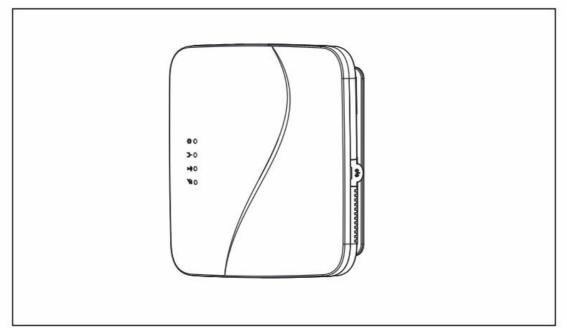


• Attach device to backplate by aligning tabs and twisting / locking into place (see below)

## **Connecting Device to Backplate**



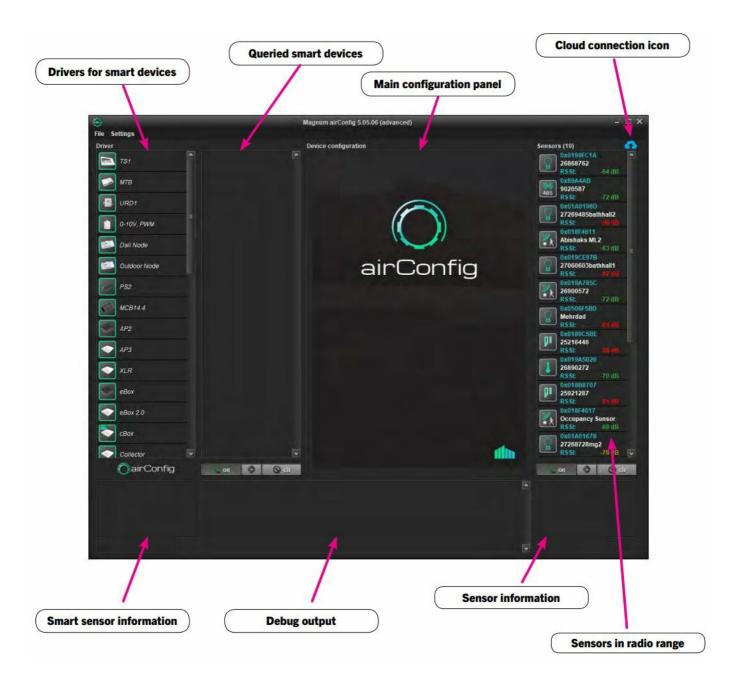






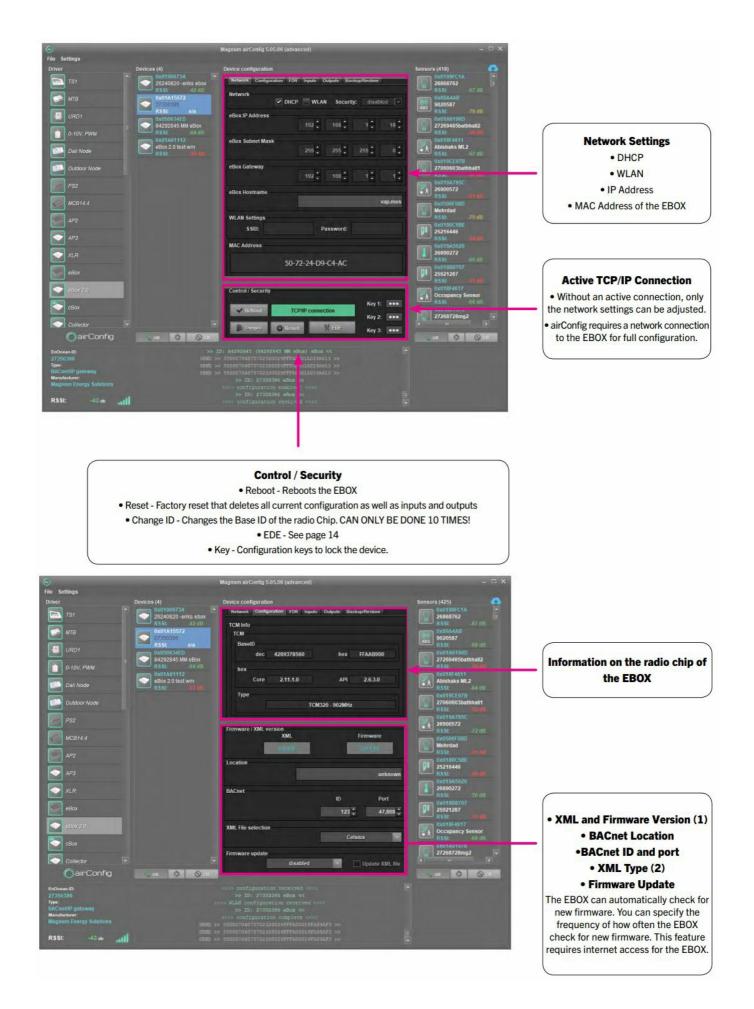
## **Configuration Process**

- Download and install air Config (email <a href="mailto:support@magnumfirst.com">support@magnumfirst.com</a> for download instructions))
  - Select USB port with USB-transceiver or network card.
  - The eBox may be configured without the USB-Tranceiver when it can be reached on the network.
  - The eBox factory default is DHCP, so it will receive and IP Address if a DHCP server is available.
  - If your computer running airConfig is on the network, you will be able to configure the device without the USB-transceiver.
- Please find the airConfig panel overview below.





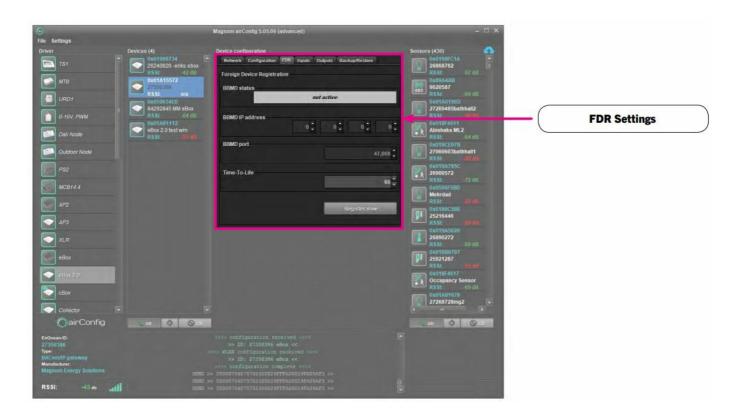
• If airConfig is started without the USB-Transceiver, it will identify EBOXES on the same network automatically. The EBOXES will not need to be queried.



1. Actual firmware version of the EBOX and XML file. airConfig will prompt if there is a new firmware version available. In a case where the EBOX has direct internet access, it will also have a BACnet point that indicates a new firmware's availability.

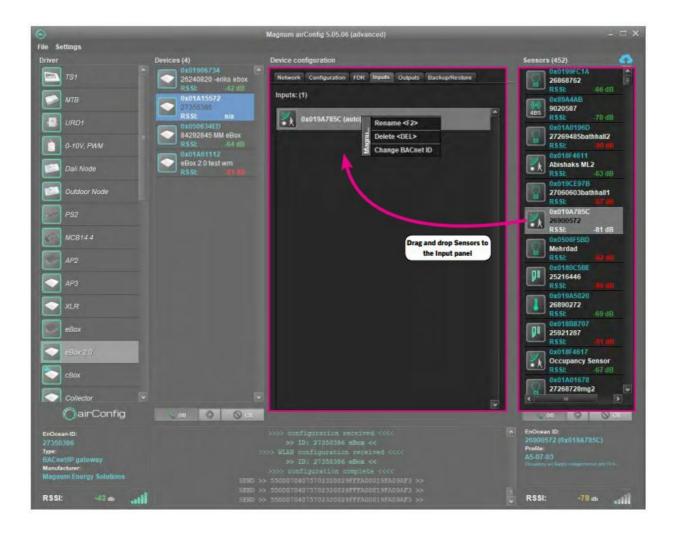
The XML file contains all EnOcean profiles and is updated regularly.

2. EBOX points are created based on the XML file. The standard XML file shows temperature values in °C. This can be changed to °F. Since all sensors send in °C, this is the recommended unit.



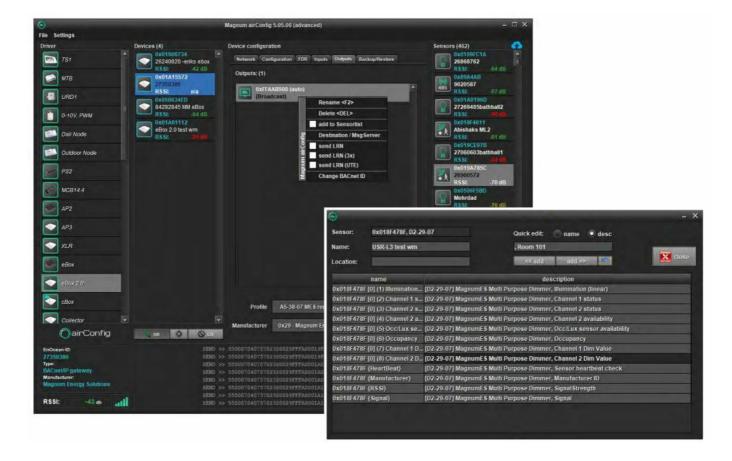
FDR Settings – In a case where a BBMD server is present on the network, the EBOX can be configured as a foreign device.

The EBOX is NOT a BBMD server!



Sensors can be added to the EBOX by simply dragging and dropping sensors from the Sensor panel to the Inputs panel.

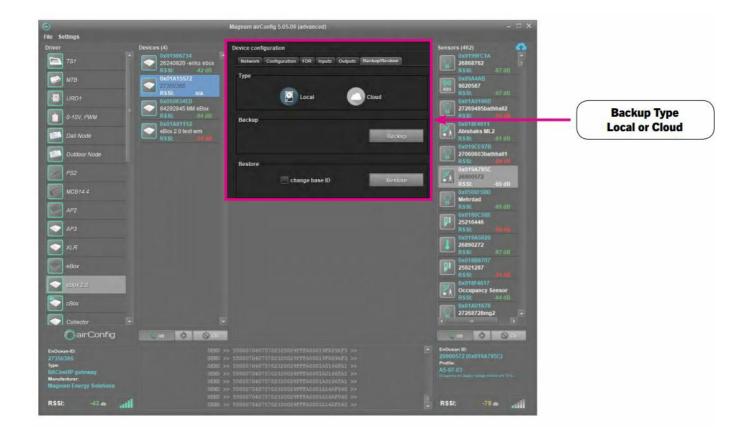
You can rename, delete and change the BACnet ID of the sensors. You will need to send the configuration to the EBOX first and read it again.



To add outputs to the EBOX, select profile and manufacturer and click on the "+".

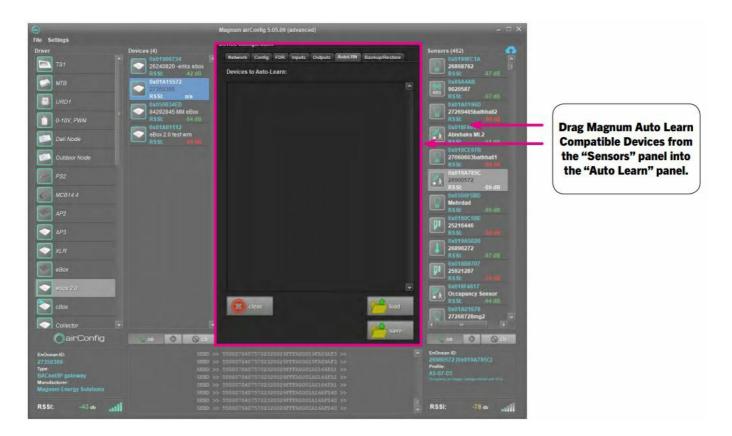
#### Options:

- Rename: Renames the output. Renaming allows you to add additional information to each BACnet point that a device creates. You are able to add text to the beginning / end of the Name or Description to provide additional identifiers (Room numbers, Office names, etc.).
- Delete: Deletes the output.
- Add to sensor list: Adds output to the sensor list so it can be used as an input for the device it is supposed to control
- Destination / MsgServer: Some devices need to be addressed (instead of using broadcast messages).
   Others may only be able to receive commands in a very short window, after they have sent a message themselves. Both can be configured here. Please refer to the device manual.
- Send LRN: Sends a learn telegram to the sensor. LRN sends 1 4BS learn telegram
- LRN(3x): Sends 3 consecutive learn telegrams.
- LRN(UTE): Sends 1 UTE telegram (please refer to device manual)
- Change BACnet ID: Take from input



airConfig can backup and restore all of its configuration, including inputs and outputs either to your local HDD or to the Cloud.

Change base ID will also change the Base ID of the new EBOX if the destination device is different from the source. This will allow the new EBOX to control all the devices that the old one did. A Base ID can only be changed 10 times.

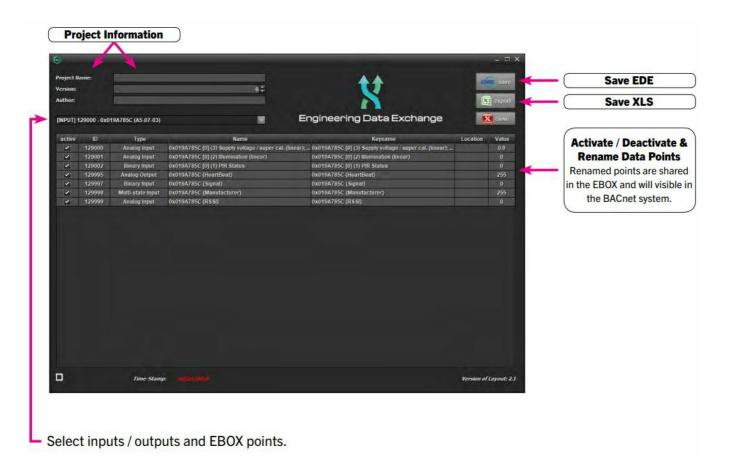


## **Auto Learn**

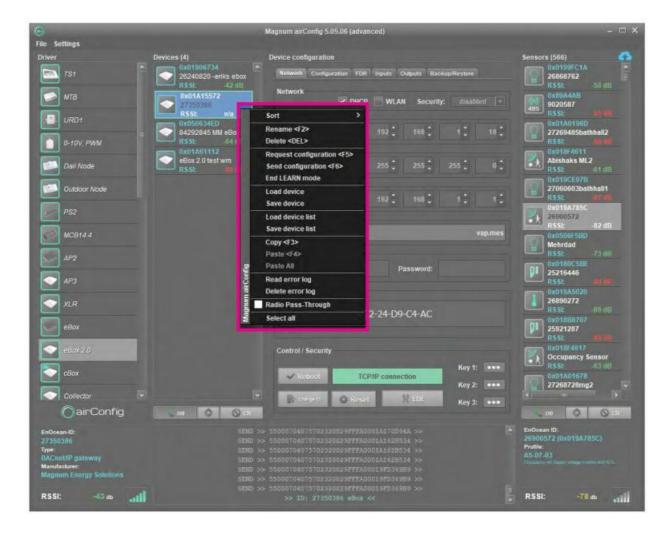
Magnum Auto Learn compatible devices enable the EBOXs to learn in devices based on signal strength. In

installations where the devices fall into multiple EBOXs range, Auto Learn will allow the EBOXs to study the signal strength for the devices. After a 5-6 hour period, the EBOXs will use that information to assign the devices to the ideal EBOX.

You are able to Save / Load these Auto Learn lists and apply them to multiple EBOXs.



Since data points are created in the EBOX, you will need to send / receive the configuration before you can edit the EDE file.



- Sort: Sort EBOXES by RSSI, name, location and EnOcean ID
- Rename: Rename the EBOX
- Delete: Delete the EBOX
- Requestion Configuration: Request configuration from the EBOX
- Send Configuration: Send configuration to the EBOX
- Start / End Learn Mode: Start / end learn mode toggle
- Load Device: Load a single EBOX from disc
- Save Device: Save a device
- Load Device List: Load an EBOX list from a disc
- Save Device List: Save selected EBOXES as a list to a disc
- Copy: Copy the configuration
- Paste: Paste without inputs and outputs
- Paste All: Paste with all inputs and outputs
- Read Error Log: Request error log from EBOX
- Delete Error Log: Delete error log from EBOX
- Radio Pass-Through: Activating radio pass-through causes the EBOX becomes the radio of airConfig.

All radio messages will be forwarded from the EBOX to airConfig. All commands are being sent through the EBOX

- Select All: Select all EBOXES

#### **Documents / Resources**



MAGNUM FIRST Mx-EBOX BACnet IP Gateway [pdf] Instruction Manual Mx-EBOX, Mx-EBOX BACnet IP Gateway, BACnet IP Gateway, IP Gateway

## References

• 
□ Dropbox - File Deleted - Simplify your life

Manuals+,