The BACnet WiFi Adapter is an electronic hardware module suitable for the connection of BACnet MS/TP to BACnet tools for the purpose of commissioning and problem-solving. See also Fig. 2 for possible scenarios.

To use the RoomUp configuration tool, download it from the Google Playstore - URL: https://play.google.com/store. The commissioning engineer can then exploit the wireless connectivity to the BACnet IP to, e.g., configure the I/O terminals of the CPO-R controller.

The two most-likely commissioning scenarios are as follows (see also Fig. 2):

**Scenario #1: Power and BACnet MS/TP via RJ45 Plug**

In this scenario, communication between the CPO-R Controller and the RoomUp configuration application on the Android Smart device is effected via a direct connection of the BACnet WiFi Adapter to the RJ45 interface of the CPO-R Controller (from which the BACnet WiFi Adapter also obtains its power).

**Scenario #2: Direct Connectivity to BACnet MS/TP Bus**

In this scenario, the BACnet WiFi Adapter is wired to the controller's BACnet MS/TP interface and obtains its power from a separate transformer.

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**FEATURES**

- Mobile BACnet MS/TP access point for RoomUp
- BACnet MS/TP to BACnet IP connection
- Integrated router
- Simple one-cable connection to CPO-R controller
- Connection to any BACnet MS/TP system having screw terminals
- Secure WiFi connection using WPA2
- WiFi-protected setup (WPS) for fast device connection
- Long-distance use with external antenna (see NOTE)
- Web interface for device configuration

**NOTE:** Use only original antenna included in shipment.

**SPECIFICATIONS**

- Weight: 120 g (without patch cable)
- Housing: 101 x 71 mm, PPE + PS
- Operating range: 0…50 °C, 5…95% r.h.
- Approvals: CE, UL, FCC, IC
- Current consumption: 60 mA at 24 VAC (see also NOTE below)

**NOTE:** When connected to the controller's RJ45 connection, the BACnet WiFi Adapter's current consumption must be taken into consideration when budgeting the max. current at the controller's 24 Vaux output terminals.

**ORDERING INFORMATION**

OS no.: BACA-A

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**OVERVIEW**

Fig. 2. System overview
Fig. 3. BACnet WiFi Adapter dimensions (in mm)

**DIMENSIONS**

101.14

71.13

**RJ45 CONNECTOR (SCENARIO #1)**

The BACnet WiFi Adapter features an RJ45 jack which can be connected (using a standard ETHERNET patch cable) to the controller's RJ45 connector. See also Fig. 4.

**WARNING**

Risk of equipment damage!

- When the BACnet WiFi Adapter is connected to the controller's RJ45 connection, it is powered by the controller. It is then prohibited to simultaneously power the BACnet WiFi Adapter via a wall adapter.
- When, on the other hand, the BACnet WiFi Adapter is instead connected to the controller's BACnet MS/TP interface, it is prohibited to simultaneously use an RJ45 plug; instead, the BACnet WiFi Adapter must then be powered by a wall adapter (standard 5-V USB wall adapter with micro USB connector).

**WEB PAGES AND FIRMWARE UPDATING**

Once you have established (using RoomUp) BACnet MS/TP communication between your PC, your Android Smart device, and the BACnet WiFi Adapter (see also Mounting & Operating Instructions, MU1B-0592GE51), you can type the following IP address into the address bar of the Internet browser on your PC in order to configure the BACnet WiFi Adapter (i.e., to change the MS/TP MAC address of the Adapter, the MS/TP baud rate, the password, etc.):

192.168.2.1/

**APPROVALS, CERTIFICATIONS, ETC.**

- CE-approved:
  - EN 60730-1, EN 60730-2-9;
  - EN 301 4891 V1.9.2, EN 301 489-17 V2.2.1;
  - EN 300 328 V1.8.1.
- UL 60730-1, Standard for Automatic Electric Controls for Household and Similar Use, Part 1;
- Complementary UL916 listing;
- CAN/CSA-E60730-1, Standard for Automatic Electrical Controls for Household and Similar Use, Part 1;
- FCC;
- Industry Canada (IC);
- BACnet AAC profile.

**Trademark Information**

BACnet™ is a trademark of ASHRAE Inc.

ComfortPoint™ Open is a trademark of Honeywell Inc.

Manufactured for and on behalf of the Environmental & Energy Solutions Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

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