Quick Start

B6085 – BACnet/IP to BACnet/WS Gateway/Firewall
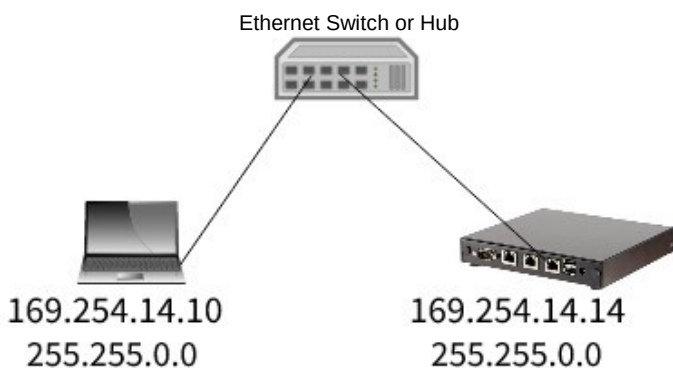
Configuration port

Starting the B6085 unit for the first time
You must configure your unit before connecting it to a BACnet network!

Before you can configure the unit, you need to establish a connection between a PC and the unit. Your unit has three Ethernet ports—one of them is a dedicated configuration port. Connect your unit's configuration port and your PC's Ethernet port to an Ethernet network, as shown below; standard Ethernet cables should be used.
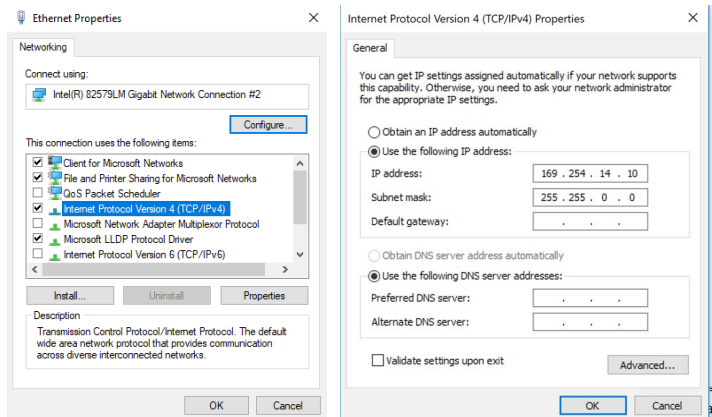
The unit's network communication parameters for its configuration port are preset and cannot be changed. That port has a fixed IP address: **169.254.14.14**

The PC must not use DHCP, but rather it should use the following IP address: **169.254.14.10.** The PC's Subnet Mask must be set to **255.255.0.0.**

Ethernet Switch or Hub

169.254.14.10
255.255.0.0

169.254.14.14
255.255.0.0

How to set the IP address on your Windows PC:
To set your IP address, follow these steps:

1. Open the PC's Control Panel app.

2. Navigate to *Network and Internet – Network and Sharing Center – Change Adapter Settings*

3. Right click on the Ethernet adapter you are using to communicate – *Properties* — *Internet Protocol Version 4 – Properties* – Use the following IP address — **169.254.14.10** and Subnet Mask — **255.255.0.0**. Click the "OK" button.

4. Now you are ready to communicate with the device.

Login to the B6085

Plug your PC and unit (configuration port) into the same Ethernet hub or switch. On the PC, open a web browser and type the IP address of the unit's configuration port – **169.254.14.14** then press ENTER.

! The unit must have completed the start-up phase (check that the Power LED in front is steady green); otherwise the required web pages will not be visible.
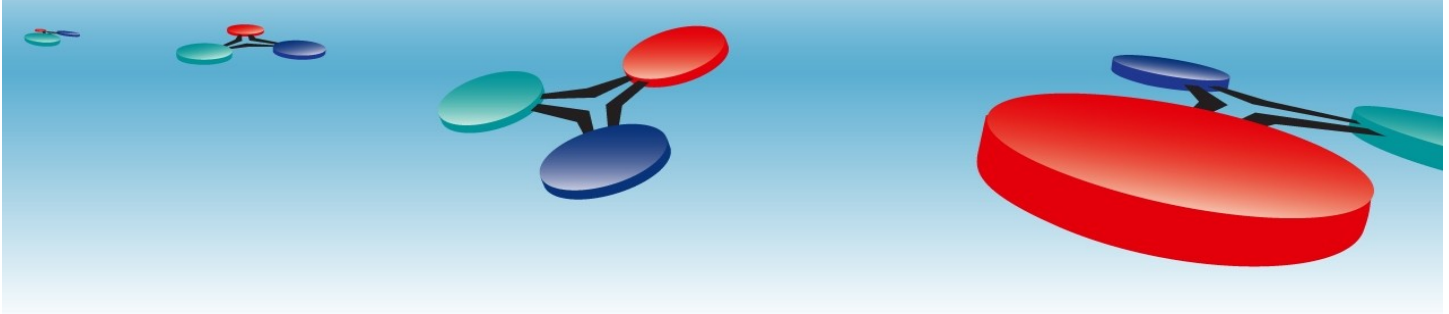
You will be prompted to login: The username is *admin* and the password is provided with your unit (see the sticker affixed to the router).

! You can change your assigned admin account password there is no recovery method. So keep it in secure location and never lose it! You can also create a new user login that you can use to login into the router interface.

Once you login you will see a home page. **See the reverse side for a list of the unit's configuration parameters.**

B6085 Configuration Checklist

You will need to set several configuration parameters to appropriate values for your site's BACnet internetwork in order to ensure proper interoperation. And you will need an NCL Configuration file to map between BACnet/IP and BACnet Webservices. This mapping file is created with the NCL Creator tool under Windows.

Feature	Items	Notes/Comments
BACnet Device	BACnet Device Instance Number (not in this version)	
Web Network Interface (usually connected to the building's backbone network)	IP Address Subnet Mask Default Gateway IP Address (if needed) HTTP Port (typically 80) Auto restart interval in hours Auto status save in seconds	
BACnet Network Interface (connected to a BACnet/IP LAN)	DHCP enabled? IP Address Subnet Mask BACnet UDP Port (typically 47808)	
NCL Configuration File	NCL Creator or other NCL tools are used to create and adjust the mapping between BACnet IP and BACnet Webservices calls. NCL Creator runs on a Windows PC and discovers the BACnet LAN devices and objects for mapping in the B608x	
Configuration Interface (used only for router configuration)	IP address = 169.254.14.14 fixed Subnet mask = 255.255.0.0 fixed Admin account password is printed on a sticker.	
Physical Space	DIN rail mounting—mounting dimensions are 6.0" hor. X 6.0" vert. x 1.25" deep. Allow approximately 1.0" inch to other equipment for air flow.	
AC Power	AC 100-240 Vrms, 50/60 Hz USA Type B (3 pin) NEMA 5-15 For 12V 3A supply via 5.5x2.5 barrel center +	