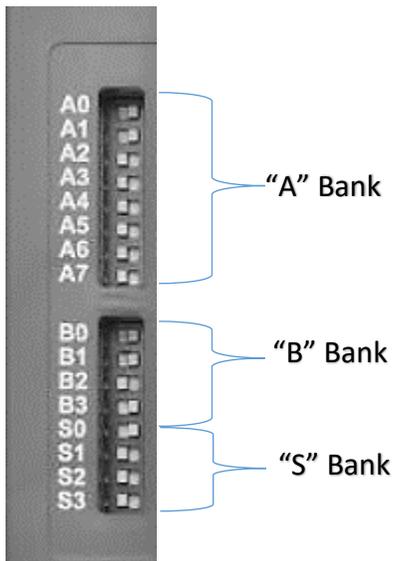


Configure the BGW Gateway DIP Switches

NOTE: If using FFUs, ensure that each FFU configuration is set to Network mode and all address Node-ID's are uniquely assigned and begin with the value 1.

NOTE: Ensure that power to the board is off when configuring DIP switches.

1. Select the desired field protocol by setting the "S" bank of DIP switches (S0-S2). Switch S3 enables Auto-Discovery. It is recommended to set switch S3 to OFF to allow control of Auto-Discovery using the web browser interface (refer to steps 7-12). S3 should be set to ON if web browser interface is not going to be used (refer to step 6).



"S" Bank Configuration

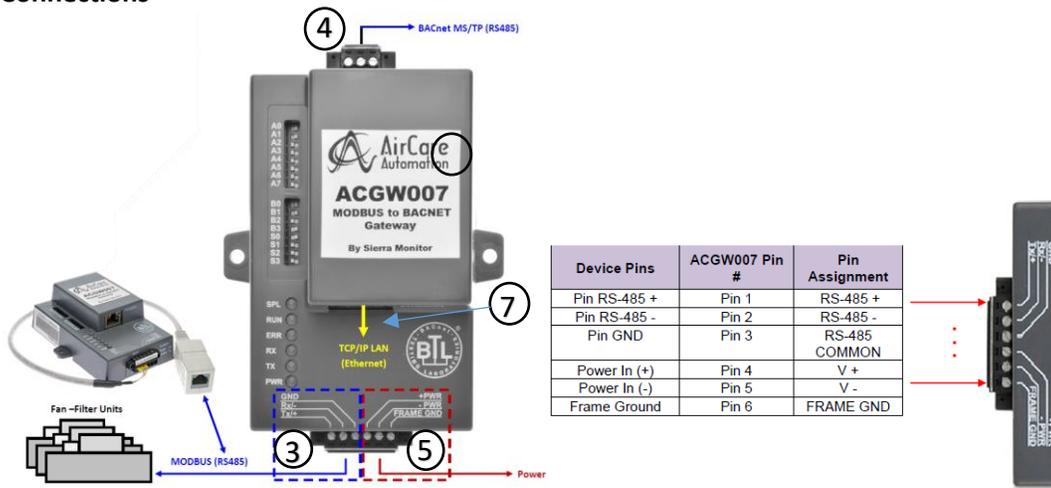
BACnet Protocol	S Bank DIP Switches		
	S0	S1	S2
BACnet/IP	OFF	OFF	OFF
BACnet MS/TP	ON	OFF	OFF

"B" Bank Configuration

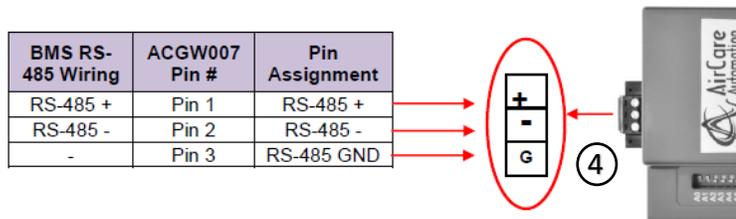
Baud	B0	B1	B2	B3
9600	On	On	On	Off
19200	Off	Off	Off	On
38400*	On	On	Off	On
57600	Off	Off	On	On
76800	On	Off	On	On

2. For BACnet MS/TP only (If you are using BACnet /IP you may skip this step):
 - A. To set the BACnet MS/TP MAC Address for the BGW Gateway, set "A" bank to a value between 1 and 127. The default configuration is set to 3, as shown above.
 - B. To set the field baud rate of the BGW Gateway to match the baud rate required by the BMS for BACnet MS/TP, set the "B" bank DIP switches to the desired configuration. The factory default setting is 38400, shown above.

Device Connections



3. Connect MODBUS RS-485 devices to pins 1 through 3 (for gateway kit, use provided adaptor, shown above, to connect to pins 1 through 3).
4. Connect the BACnet MS/TP RS-485 network wires to the 3-pin RS-485 connector, shown below.



5. Pins 4 through 6 are for power supply.
For Gateway Kit, supply 120VAC power to the DIN rail mounted terminal blocks.
For Gateway only, supply either 9-30VDC or 12-24VAC to pins 4 and 5 of the BGW Gateway.
6. Once power is supplied, it will take about 3 minutes for all the devices to be discovered and the configuration file to be built. Once Auto-Discovery is complete, turn OFF the S3 DIP switch to save the configuration settings.

BGW IP Address Web Browser Access

7. Connect a Cat5e Ethernet cable from the BGW Gateway RJ45 Ethernet port to the local PC.
8. Set an IP address for the PC that will bring it into the same net and subnet as the BGW Gateway.
If the BGW Gateway was left at factory default configuration, change your IP address to **192.168.1.20** and Subnet mask to **255.255.255.0**.
9. Open a web browser and enter the IP address **192.168.1.24** (default).
10. Once the Web Configurator is displayed, click on "Discovery Mode" shown to the right.
11. Discovered MODBUS nodes will be listed at the bottom of the Configurations Parameters web page in the Active Profiles section.
12. Once the BGW Gateway has discovered all of the MODBUS RS-485 devices, disable Discovery Mode to save the current configurations by clicking the Discovery mode button and then OK to restart.

Discovery Mode OFF



Discovery Mode ON

