



APPLICATION NOTE

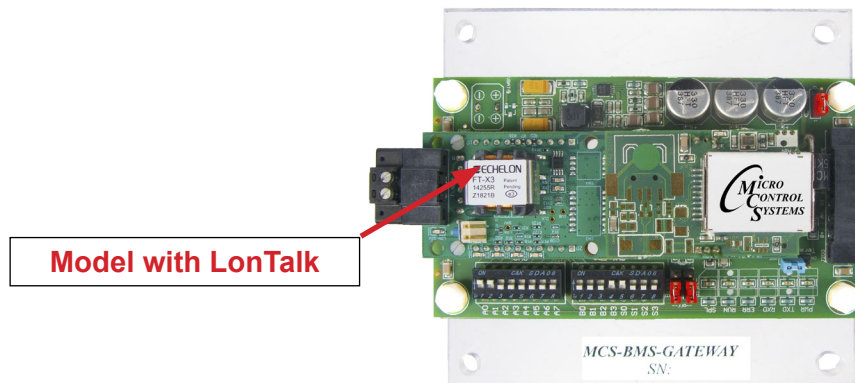
APP #085

Programming a MCS-BMS-GATEWAY

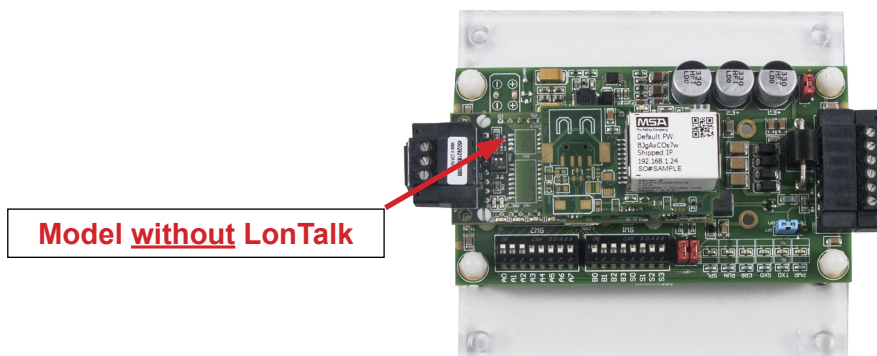
A BMS GATEWAY is needed to support the protocols,
BACnet MS/TP, Johnson N2
and LonTalk (not available on MCS-BMS-GATEWAY-NL)

Two MCS-BMS-GATEWAY'S ARE AVAILABLE

1. MCS-BMS-GATEWAY (with LonTalk)



2. MCS-BMS-GATEWAY-NL (No LonTalk)



Any questions regarding this release, contact: support@mcscontrols.com

Micro Control Systems, Inc. 5580 Enterprise Parkway Fort Myers, Florida 33905
(239)694-0089 FAX: (239)694-0031 www.mcscontrols.com

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What's Needed:

- A. Field Server Toolbox program installed on a computer.**
 - B. An Ethernet Cable.** (crossover cable is only required when connected from gateway to magnum)
 - C. CSV files created from the MCS-MAGNUM Controller CFG.**
1. Connect PC to a powered BMS-GATEWAY with an Ethernet Cable.
 2. Open Field Server Toolbox Program. (If running program for the first time click on **'DISCOVER NOW', unclick when closing program**). The MCS-BMS-GATEWAY you're connected to will show up on the top line giving you the IP address and MAC address. Also you may need to right click and run as Administrator if the Gateway did not show up.
 3. Look at **CONNECTIVITY column lights**,
 - a. If Blue, it is a NEW CONNECTION**
 - b. If GREEN, click Connect**
 - c. If YELLOW, it is not on same network so go do 3a**
 4. Click **Diagnostics and Debugging**.
 5. Click **Setup**.
 6. Click **File Transfer**.
 7. Click the **Configuration tab**, then click **Choose Files**.
 8. In **Pop Up file browser**, navigate to the saved CSV files, select **Config** and click open .
 9. Click **Submit**.
 10. Click the **General Tab**, then **click Choose Files**
 11. Select the correct BMS protocol file, than click open.
 - a. bac for BacNet MS/TP
 - b. jn2 for Johnson N2
 - c. lon for Lontalk (not available on MCS-BMS-GATEWAY-NL)
 - d. mod for Modbus over IP
 12. Click **Submit**.
 13. Click **System Restart** to reboot the BMS GATEWAY card and refresh the web browser.
 14. Close the web browser and the Field Server Toolbox.
 15. Reconnect the BMS GATEWAY card to the MCS MAGNUM and have the building management system discover the card.

Note 3a

You need to setup your PC to the same network as the BMS Gateway.

1. Type in **'ncpa.cpl'** in the task bar search field.
2. Right click on **Local Area Connection** and left click on **Properties**.
3. Double left click on **Internet Protocol Version 4 (TCP/IP v4)**.
4. Select **'Use the following IP address'** and enter a static IP address on the same subnet. With the last number being different than the Gateway(192.168.18.xx)
5. Click **OK**.
6. Open **Field Server Toolbox** and click on **Discover Now**. The **Connect** button should be accessible.