BACnet MSTP Gateways

FAQ for GW-2139M

Q1. How to manipulate GW-2139M via Modbus Poll tool?(2021/11/08, Ives) 1

Q2. How to read GW-2139M module param?(2024/05/08, Johney) 2

Q3. How to connect Honeywell with the GW-2139M?(2024/08/22, Johney) 3

Q4. Before using the GW-2139M, how can you check the objects available in the BACnet MS/TP Slave?(2024/08/23, Johney) 4

Q5. Is there any limitation on the network topology types for BACnet devices connected to the GW-2139M?(2024/09/10, Johney) 6

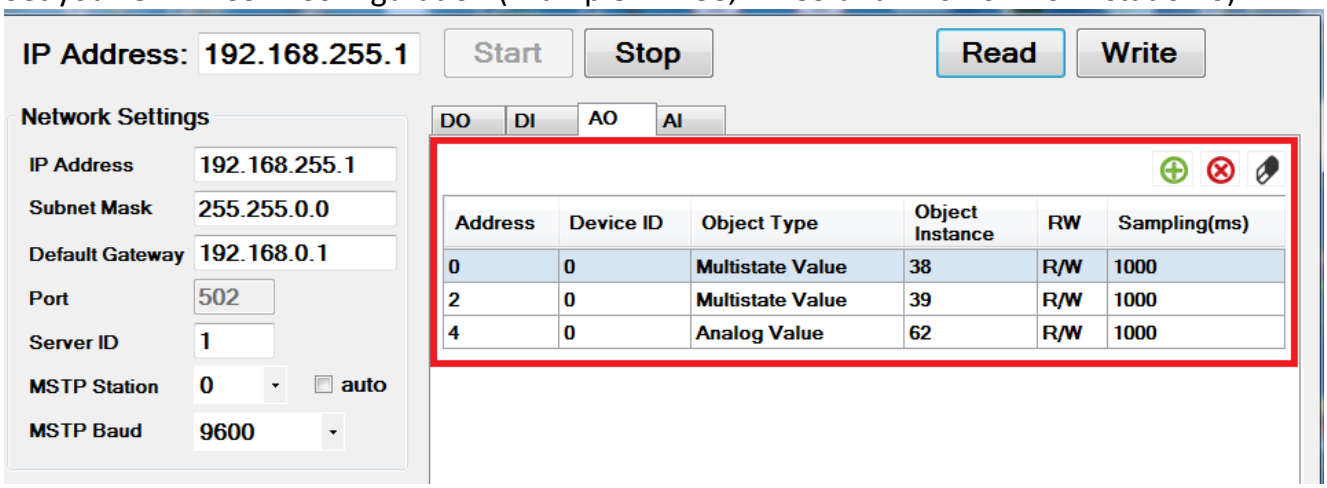
Q6. Is there a limitation on the number of data points that the GW-2139M can convert?(2024/09/13, Johney) 7

Q7. When the BACnet AI object of the GW-2139M reads 973.234, what is the corresponding Modbus value? How should the PC side decode it?(2024/09/15, Johney) 8

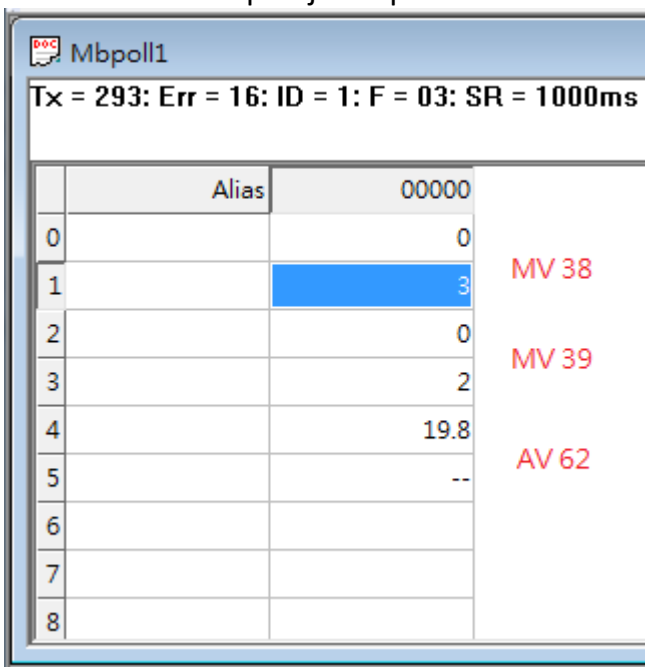
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Q1. How to manipulate GW-2139M via Modbus Poll tool?(2021/11/08, Ives)

(1) Set your GW-2139M Configuration.(Example: MV38, MV39 and AV62 of MSTP station 0)

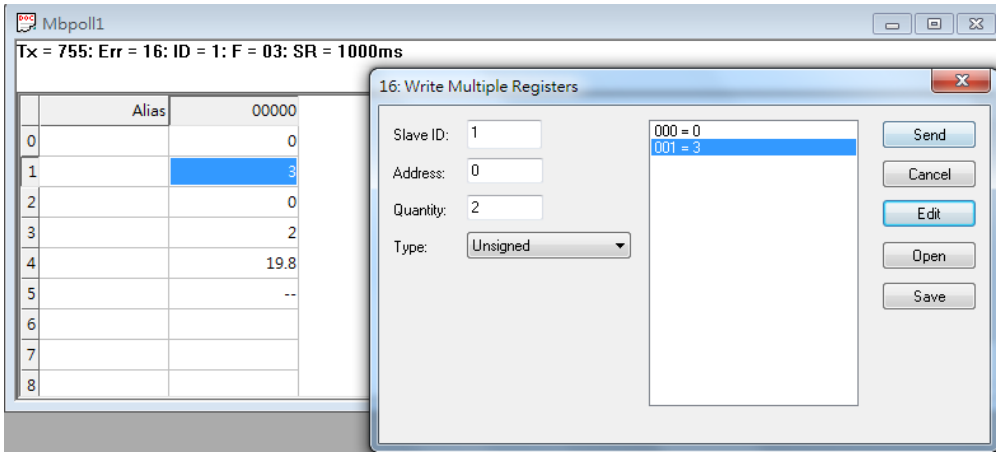


(2) Read BACnet mstp object's present value via Modbus Poll(0x03).



(3) Write BACnet mstp object's present value via Modbus Poll(0x10).

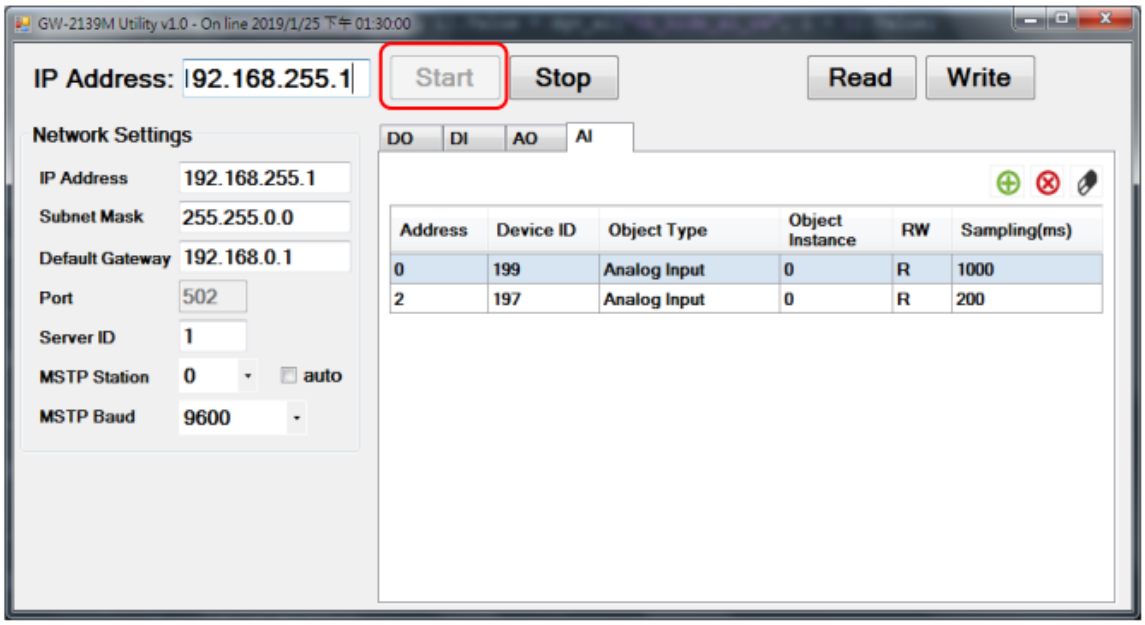
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Q2. How to read GW-2139M module param?(2024/05/08, Johney)

Ans :

The GW-2139M does not allow parameter settings to be read in RUN mode. Users should save the configuration file for future modifications.

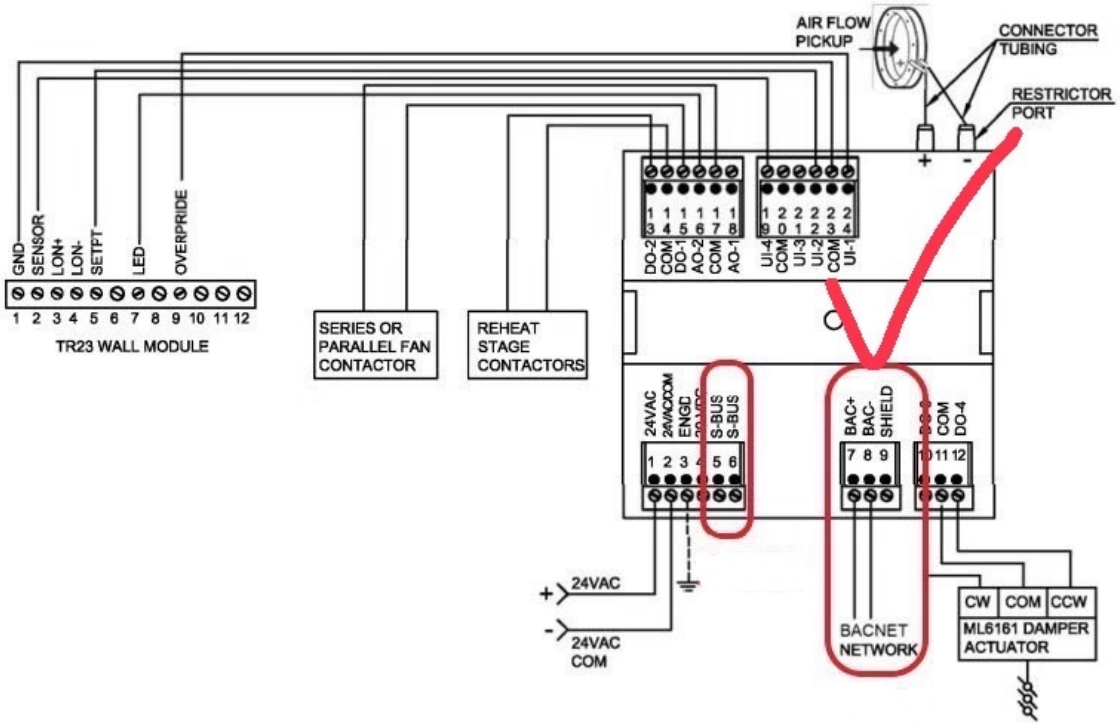


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Q3. How to connect Honeywell with the GW-2139M?(2024/08/22, Johney)

Ans :

The GW-2139M provides RS-485 terminals (D+ and D-), which use the MS/TP communication protocol. Honeywell terminals offer (BAC+ and BAC-). Therefore, connect D+ to BAC+ and D- to BAC-.

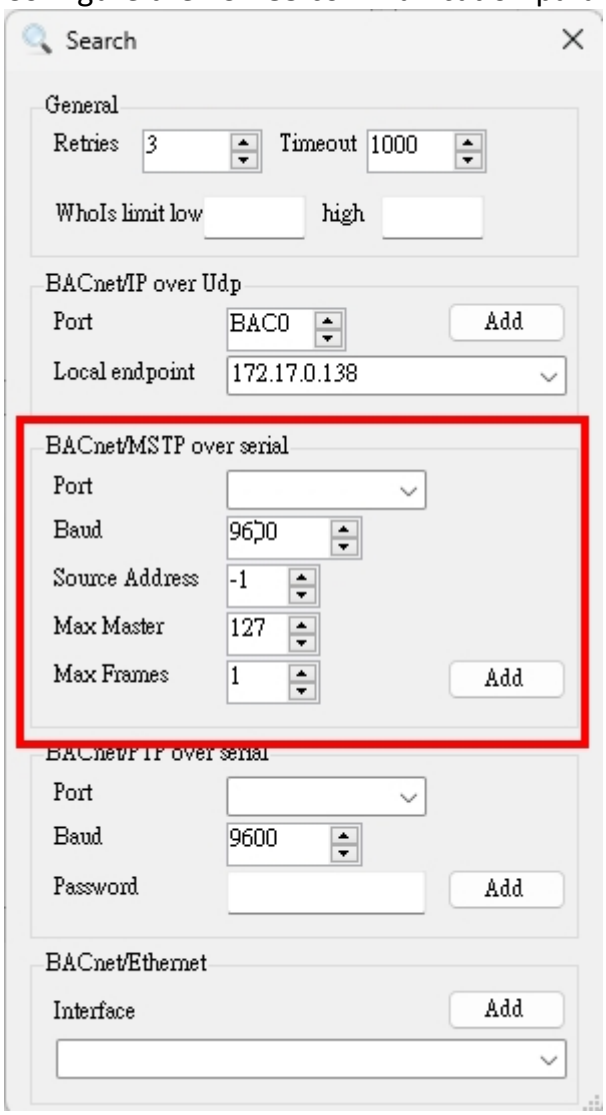


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Q4. Before using the GW-2139M, how can you check the objects available in the BACnet MS/TP Slave?(2024/08/23, Johney)

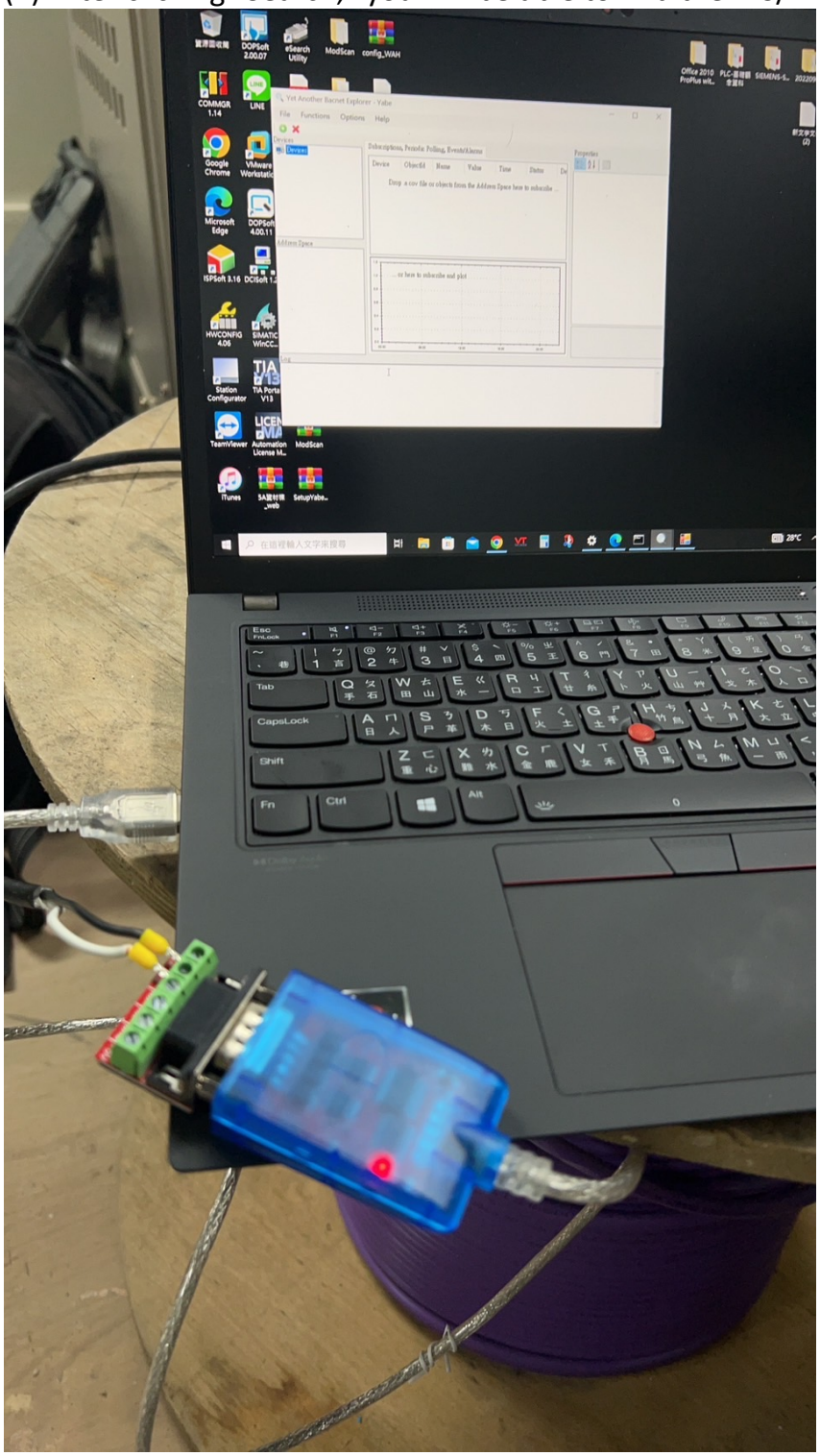
回答：

(1) Use YABE software as the BACnet MS/TP Master on the PC.
(2) The PC must have an RS-485 port or a USB/RS-485 converter.
(3) Configure the RS-485 communication parameters in YABE as follows.



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(4) After clicking "Search," you will be able to find the MS/TP Slave and its objects.

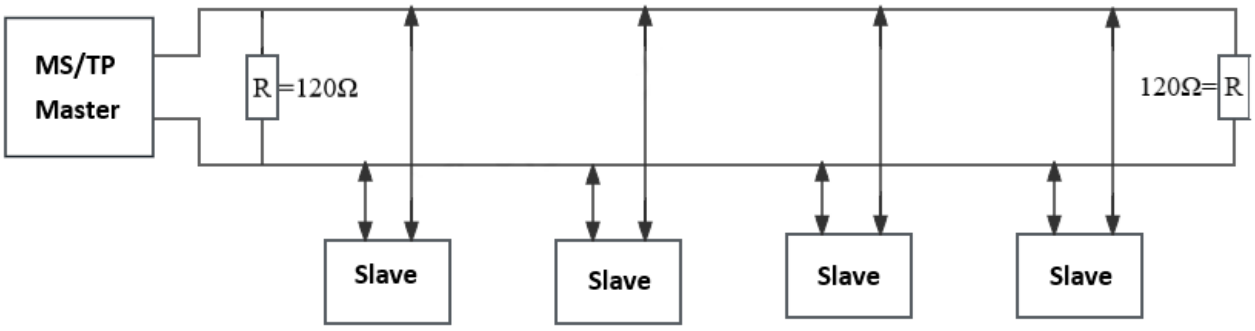


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Q5. Is there any limitation on the network topology types for BACnet devices connected to the GW-2139M?(2024/09/10, Johney)

Ans :

BACnet MS/TP only supports the Daisy-Chain topology, and terminal resistors must be added at both ends, as shown in the diagram below.



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Q6. Is there a limitation on the number of data points that the GW-2139M can convert?(2024/09/13, Johney)

Ans :

BACnet MS/TP only supports the following limits:
Modbus AO maximum quantity: 2048 WORD
Modbus AI maximum quantity: 2048 WORD
Modbus DO maximum quantity: 2048 * 8 bits
Modbus DI maximum quantity: 2048 * 8 bits

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Q7. When the BACnet AI object of the GW-2139M reads 973.234, what is the corresponding Modbus value? How should the PC side decode it?(2024/09/15, Johney)

Ans :

Here are the mapping examples of BACnet AI objects.

(1) BACnetAI = -0.019519
ModbusAI_0 = 0xBC9F
ModbusAI_1 = 0xE600

(2) BACnetAI = 973.234
ModbusAI_0 = 0x4473
ModbusAI_1 = 0x4EFA

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