

# BACnet/MSTP

Supported series: BACnet/MSTP protocol devices

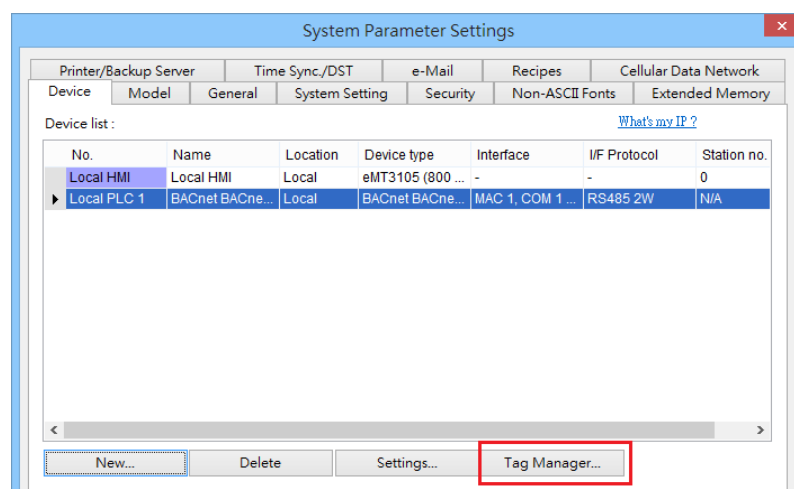
## HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	BACnet/MSTP		
PLC I/F	RS485-2W		
Baud rate	38400	9600,19200, 38400	
Data bits	8		
Parity	None		
Stop bits	1		
Time out (sec)	0.05	0.05 ~ 0.1	
Token wait time (ms)	50	20 ~ 100	
MAC	0	0 ~ 254	
HMI MAC	1	1 ~ 127	
Nmax_master	127	2 ~ 127	
Npoll	50	1 ~ 255	

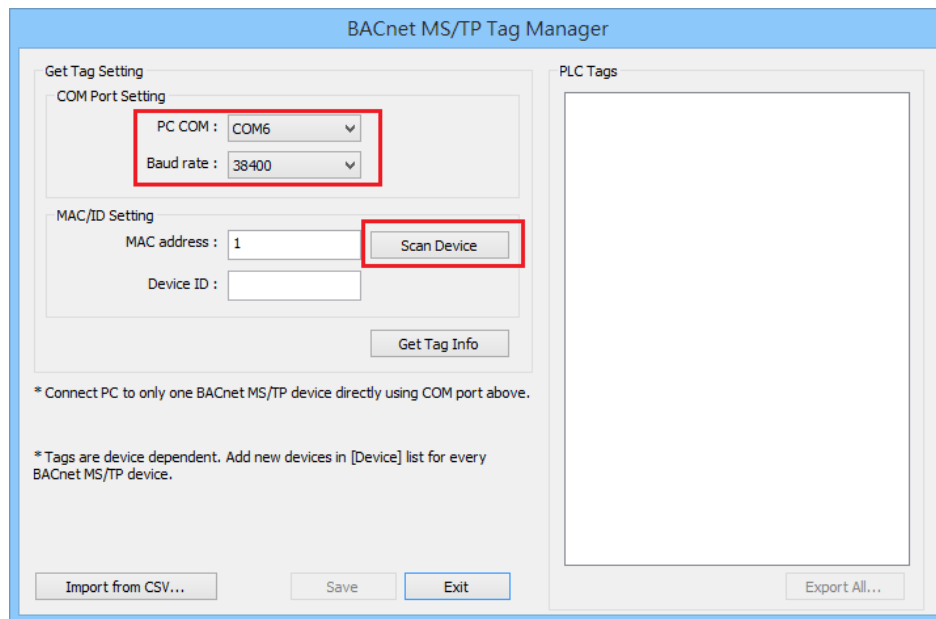
<b>Online simulator</b>	NO	<b>Extend address mode</b>	NO
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## How to Import Tags:

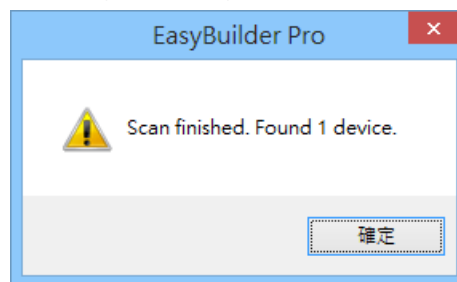
1. In EasyBuilder **System Parameter Settings** add **BACnet/MSTP** driver, set the communication parameters, and then click **Tag Manager** button.



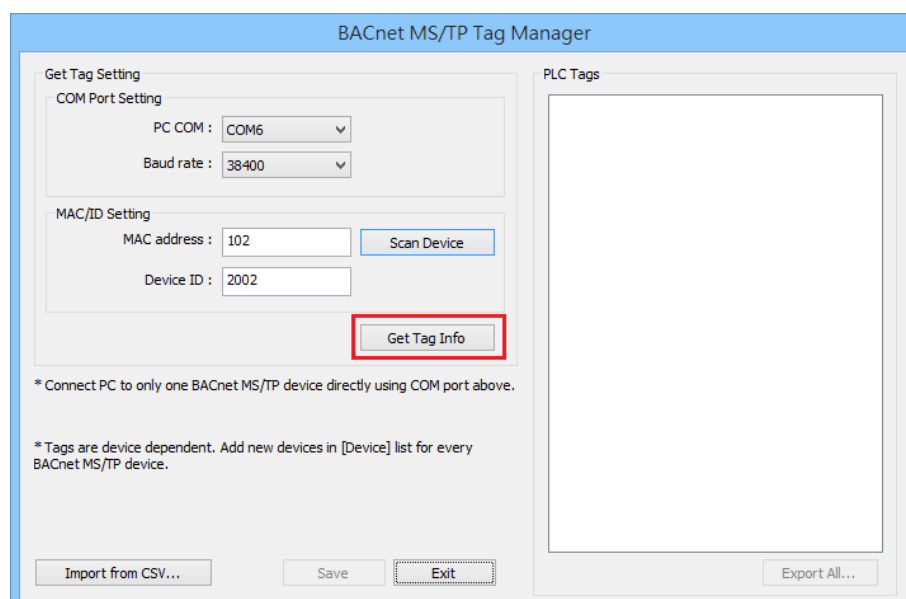
- Use a RS-232/RS-485 converter to connect the BACnet MS/TP unit with PC. Only one BACnet MS/TP unit is allowed. Set **PC COM** and **Baud rate**, click **Scan Device** button to find the **MAC address** and **Device ID** of the BACnet MS/TP unit.



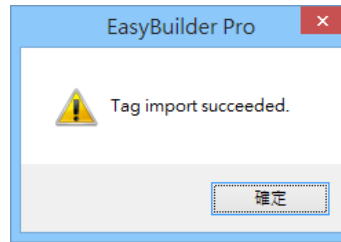
- If the device is found, the following message shows, click **OK**.



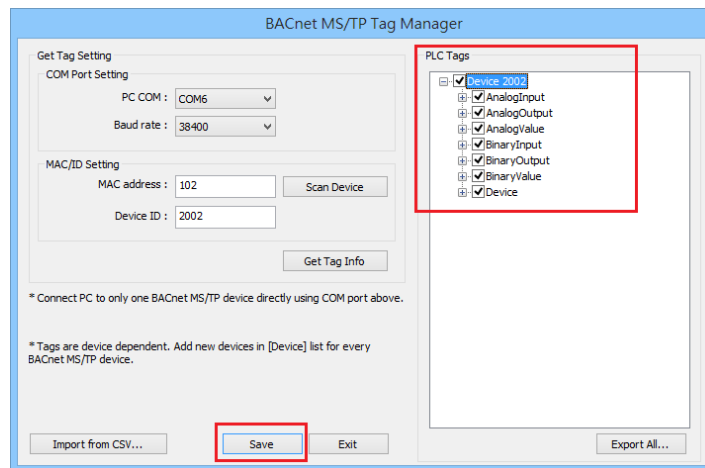
- After getting the **MAC address** and **Device ID**, click **Get Tag Info** button to get the address tags.



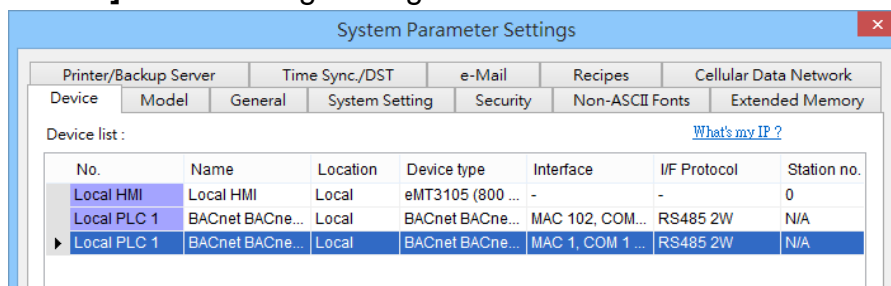
5. If the tags are obtained successfully, the following message shows, click **OK**.



6. In the **PLC Tags** field, the tags with its check box selected can be imported. After selecting the tags, click **Save**, and then click **Export All**, to save the address tags as CSV file. When finished, click **Exit** to finish importing address tags.



7. To connect another BACnet/MSTP unit, please add the **BACnet/MSTP** driver in EasyBuilder System Parameter Settings again. The communication parameters will follow the settings of the firstly added unit. The way to get tag information is the same as illustrated in the preceding steps. Another way to get tag information is to click **[Import form CSV]** button in Tag Manager.



Notes:

1. The MAC address and Device ID of certain BACnet MS/TP units can be gained by clicking [Scan Device] only at the first time the unit is powered up. To get this information in the same way again, please power up the unit again.

2. Certain BACnet MS/TP units do not support [Scan Device] and [Get Tag Info].
3. If the MAC address gained by clicking [Scan Device] does not match the one specified in EasyBuilder Pro Device Properties settings, a message shows as a reminder when [Get Tag Info] is clicked.

## Default Object Model:

Object ID	Object Name	Object Structure
0	Analog Input	Object Name Object Identifier Object Type Present Value Present Value Array Units
1	Analog Output	Object Name Object Identifier Object Type Present Value Present Value Array Units Priority Priority Array Relinquish Default SubscribeCovTime
2	Analog Value	Object Name Object Identifier Object Type Present Value Present Value Array Units Priority Priority Array Relinquish Default SubscribeCovTime
3	Binary Input	Object Name Object Identifier Object Type Present Value Present Value Array SubscribeCovTime

Object ID	Object Name	Object Structure
4	Binary Output	Object Name Object Identifier Object Type Present Value Present Value Array Priority Priority Array Polarity SubscribeCovTime
5	Binary Value	Object Name Object Identifier Object Type Present Value Present Value Array Priority Priority Array SubscribeCovTime

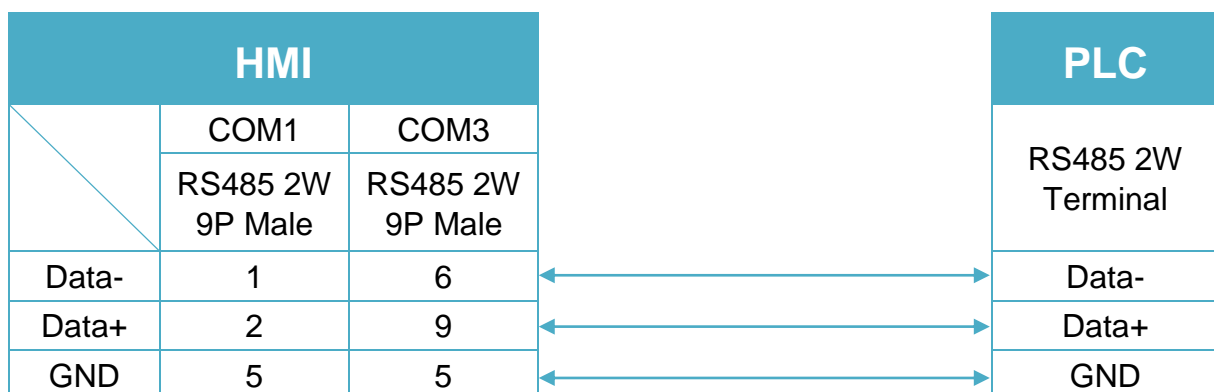
## Wiring Diagram:

RS-485 2W Terminal (Diagram 1 ~ Diagram 6)

### Diagram 1

**cMT Series**                      *cMT3151*

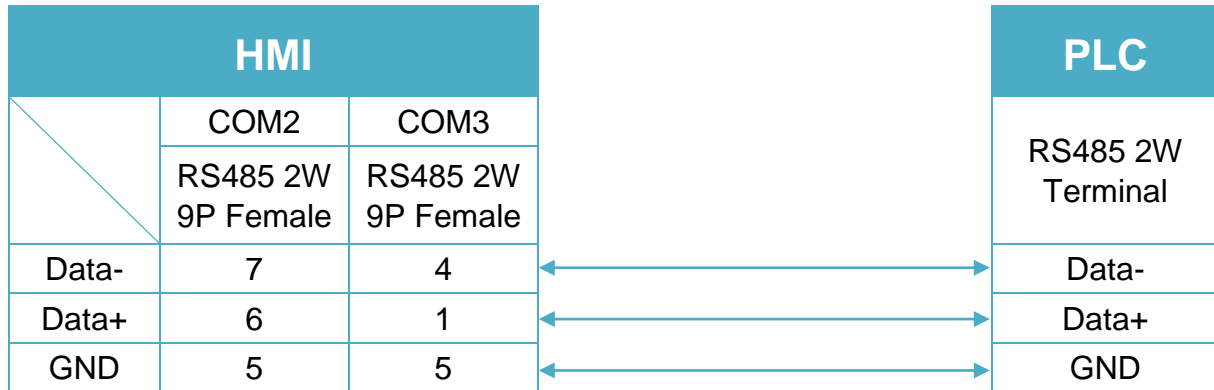
**eMT Series**                      *eMT3070 / eMT3105 / eMT3120 / eMT3150*



## Diagram 2

**cMT Series**                      *cMT-SVR / cMT-G01 / cMT-G02 / cMT-HDM / cMT-FHD*

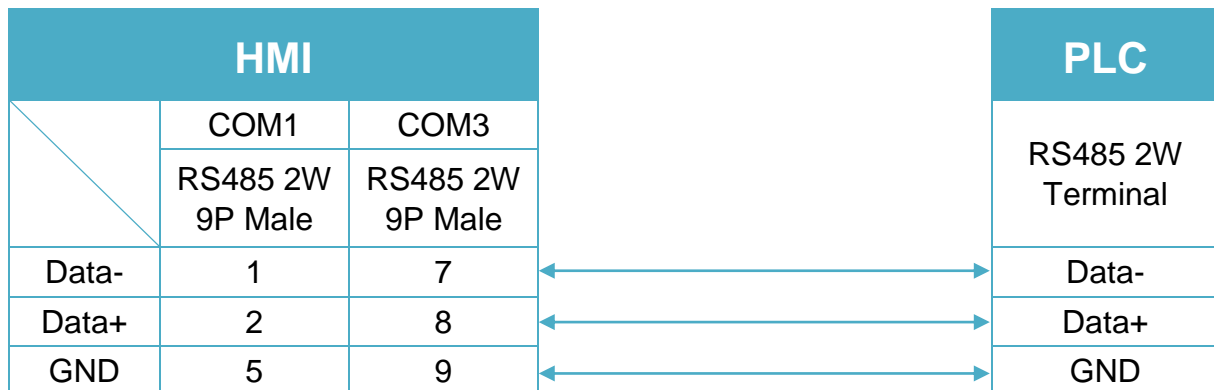
**mTV**                                *mTV*



## Diagram 3

**MT-iE**                                *MT8070iE / MT6070iE / MT8100iE / MT8121iE / MT8150iE*

**MT-XE**                                *MT8121XE / MT8150XE*



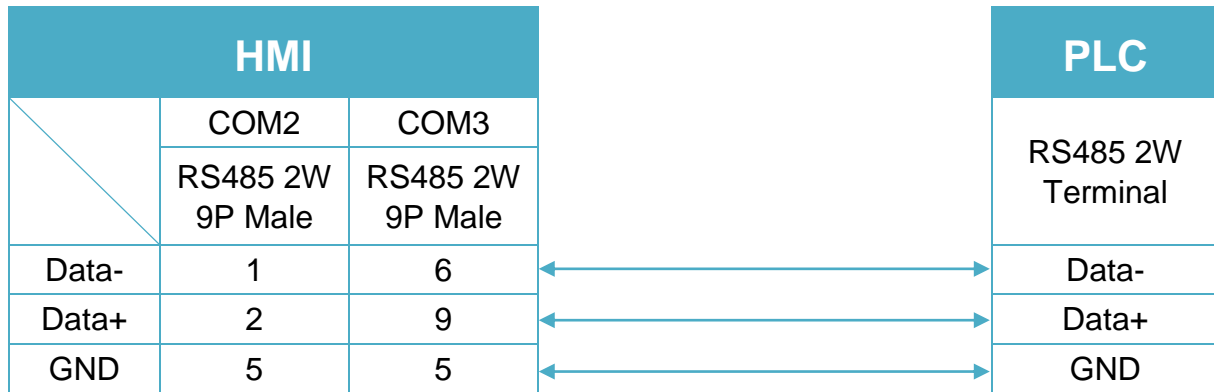
## Diagram 4

**cMT Series**                      *cMT3071 / cMT3072 / cMT3090 / cMT3103*

**MT-iE**                                *MT8071iE / MT6071iE / MT8072iE / MT6072iE / MT8073iE / MT8101iE / MT8102iE / MT8103iE*

**MT-XE**                                *MT8090XE / MT8092XE*

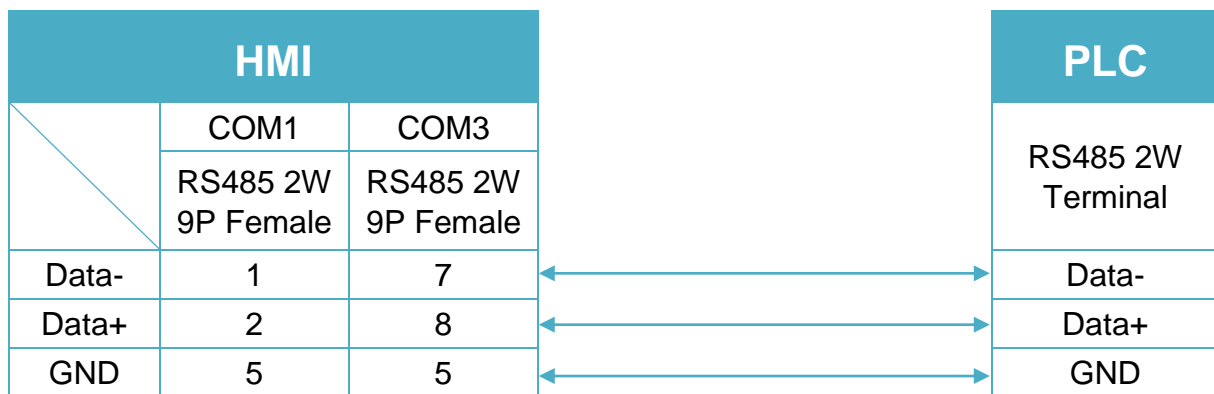
**MT-iP**                                *MT6103iP*


**Diagram 5**


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**MT-iE**                      *MT8050iE / MT8053iE*


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**MT-iP**                      *MT6051iP / MT8051iP*

**Diagram 6**


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**MT-iP**                      *MT6071iP / MT8071iP*
