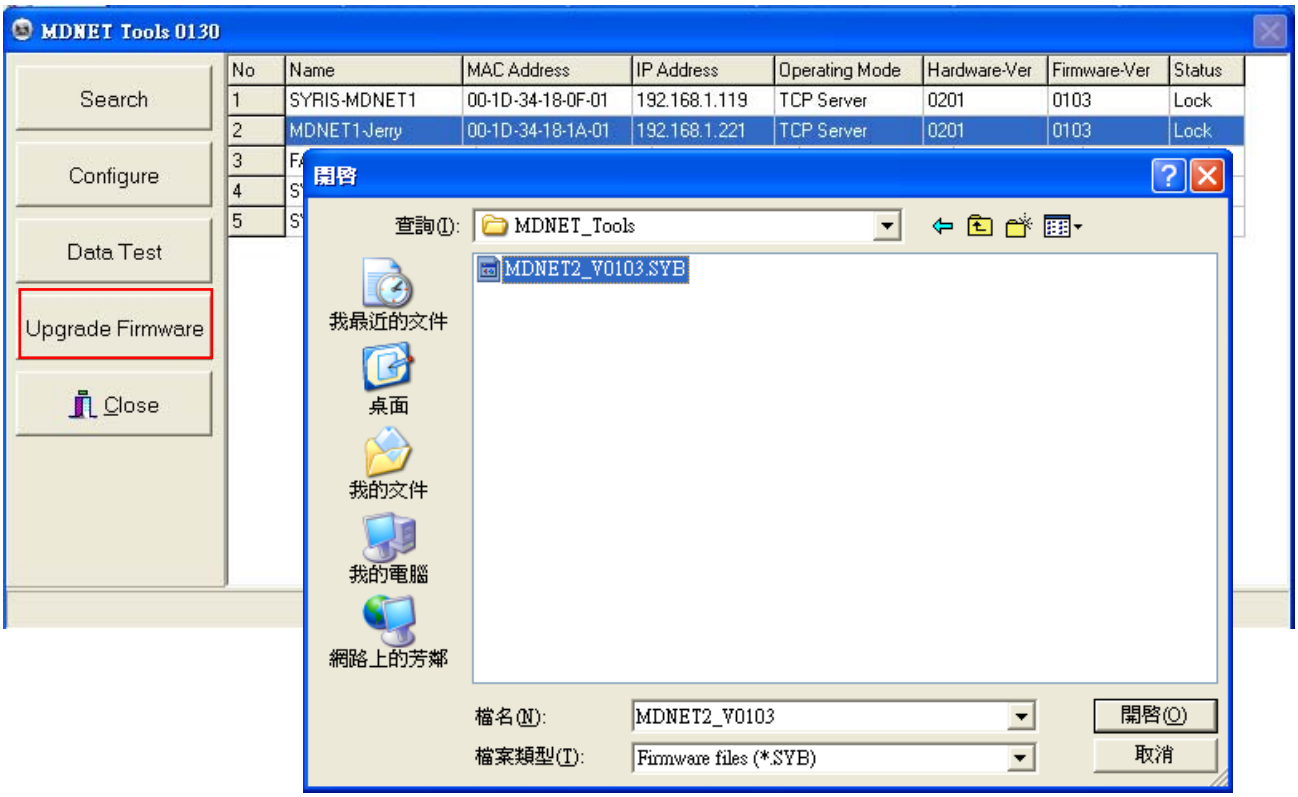
■ Upgrade Firmware



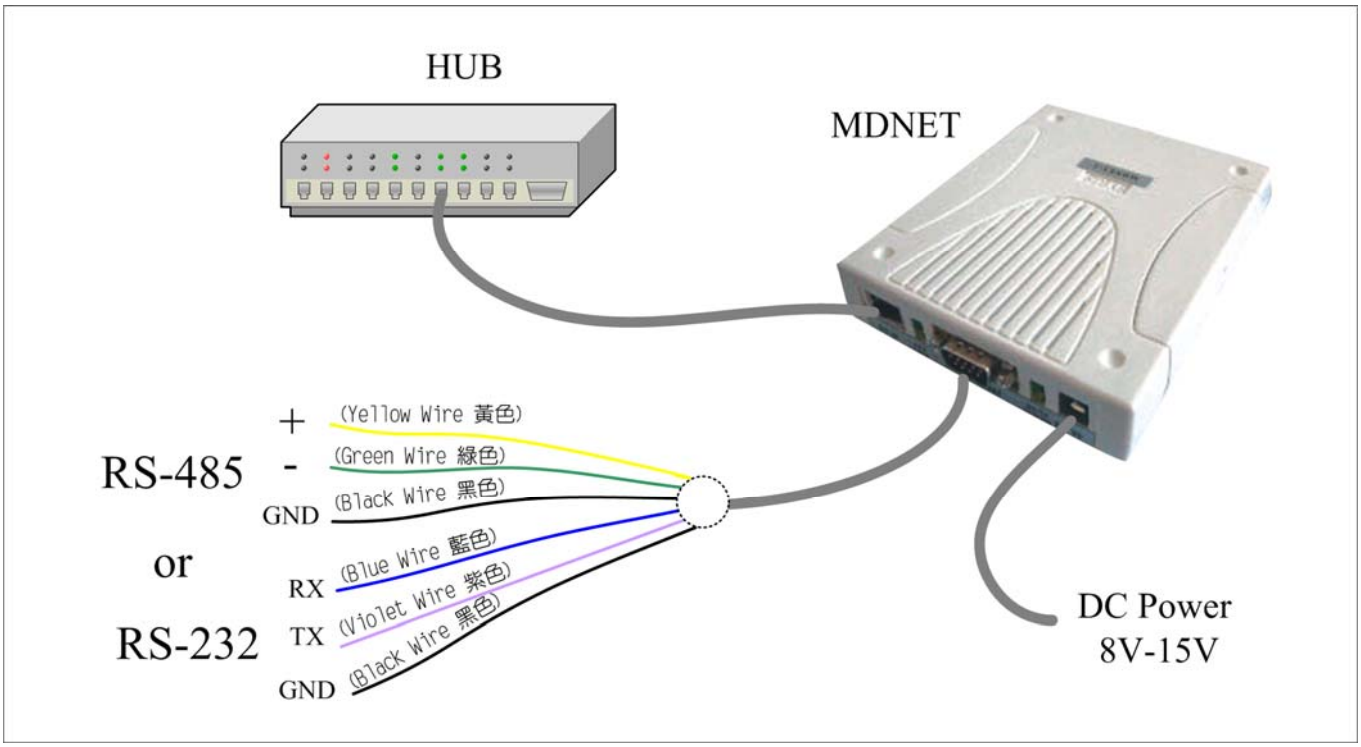
Install and Operation Instructions
MDNET Module

Ethernet to RS-232/RS-485 Converter
Auto-detecting 10/100Mbps Ethernet
Baud rate 4,800-115,200 bps

SYRIS Technology Corp.
ADD : 12F, No. 12, Sec. 1, Taijunggang Rd.
Taichung, Taiwan (403)
TEL : +886-4-2207-8888
FAX : +886-4-2207-9999
E-Mail : service@syris.com
Website : http://www.syris.com

Ver: 02.22

MDNET WIRING DIAGRAM



DB9 Connect PIN define

PIN	Function	Note
1		No Connect
2	RS-232 RX	Blue(藍)
3	RS-232 TX	Violet(紫)
4	RS-232 DTR	Orange(橙)No Function
5	GND	Black (黑)
6	RS-232 DSR	Brown(棕) No Function
7	RS-485 +	Yellow(黃)
8	RS-485 -	Green(綠)
9	GND	Black(黑)

Set to Factory Default (SW1 Hold 5 Second)

IP = 192.168.1.101
Gateway = 192.168.1.254
Netmask = 255.255.255.0
Baud Rate = 19200,E,8,1
ID = 0001
Start Delay Time = 1500
End Delay Time = 500

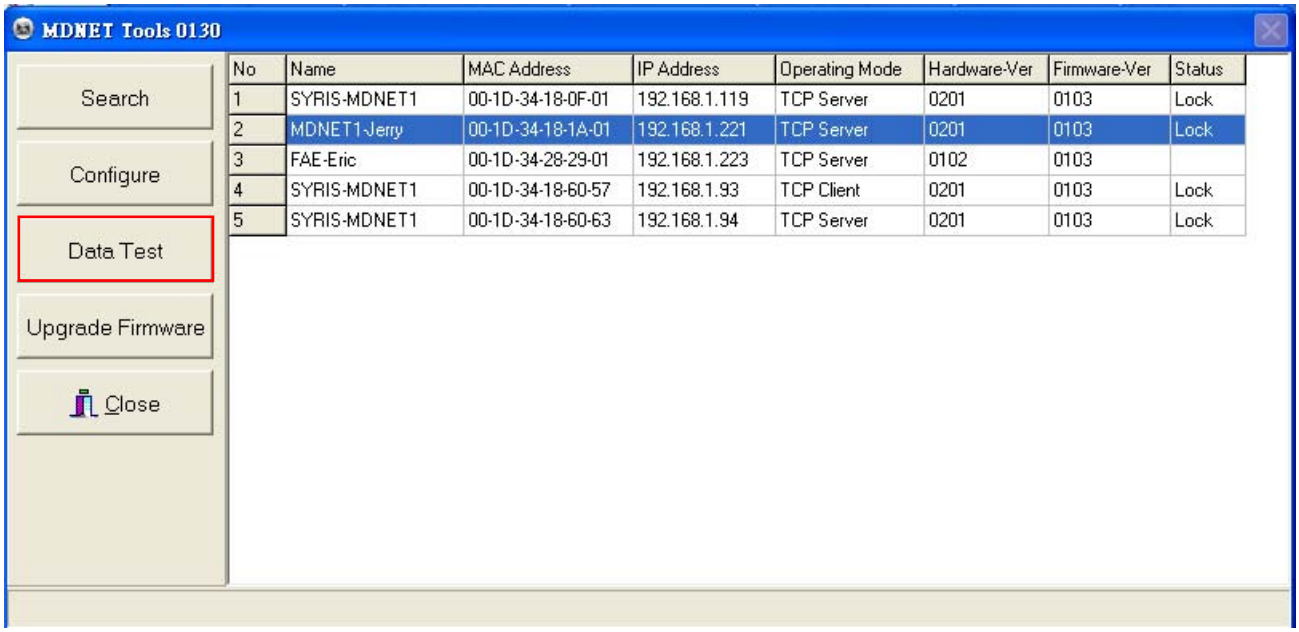
MDNET Specification

Items / Specs	**MDNET-1**	**MDNET-95A**	**MDNET-1-A**
LAN	10BASE-T/100BASE-TX port, 10/100Mbps auto-sensing		
TP port	RJ-45 phone jack		
Protocol	TCP Server/Client, UDP		
Interface	RS-232 / RS-485 (Auto-detecting)		
Connector port	9 PIN D-SUB (RS-232 / RS-485)		
Baud rate	19,200 bps (4,800、9,600、19,200、38,400、57,600、115,200)		
Parity	None , Event , Odd		
Data bits / Stop bits	8 / 1		
Software dongle	None	SYW95A-NET	SYSOFT-95A-260
Indicator	4 LED (Power , RX/TX , Link , Active)		
Color	Beige		
Humidity	10% to 95% (Non-condensing)		
Operating temperature	-20℃ to 70℃		
Storage temperature	-30℃ to 80℃		
Magnetic isolation	1.5KV for Ethernet		
Power supply input	8V to 15V DC		
Power over Ethernet module	POE module(option)		
Dimensions (mm)	110W x 136H x 32.5D		

This specification is preliminary and is subject to change without prior notice.

■ Data Test

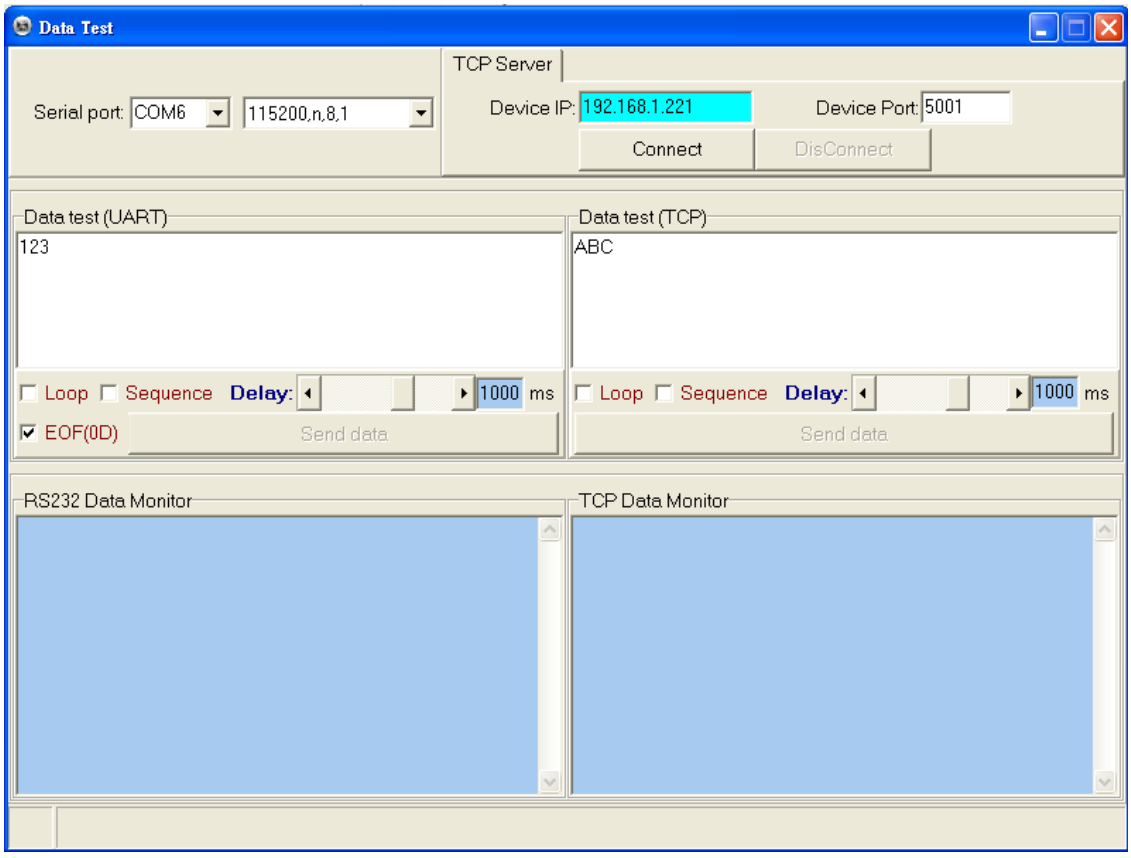
Click **Data Test** to test data transmission.



Setup the Port and Baud rate, then click Connect to connect device.

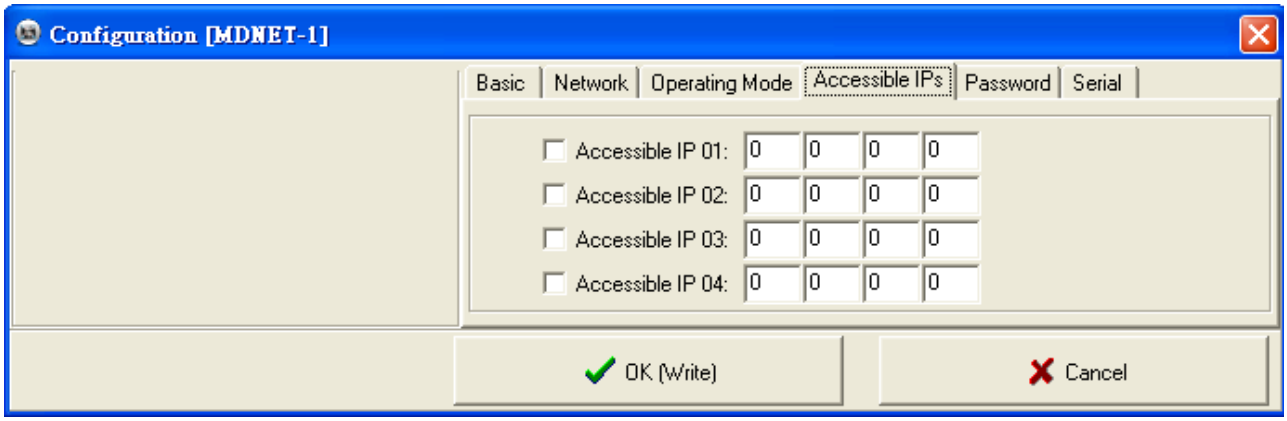
Check the option of **Loop** to continue transmit message. The bar of **Delay can set delay time.**

Check the option of Sequence to add serial number to message.



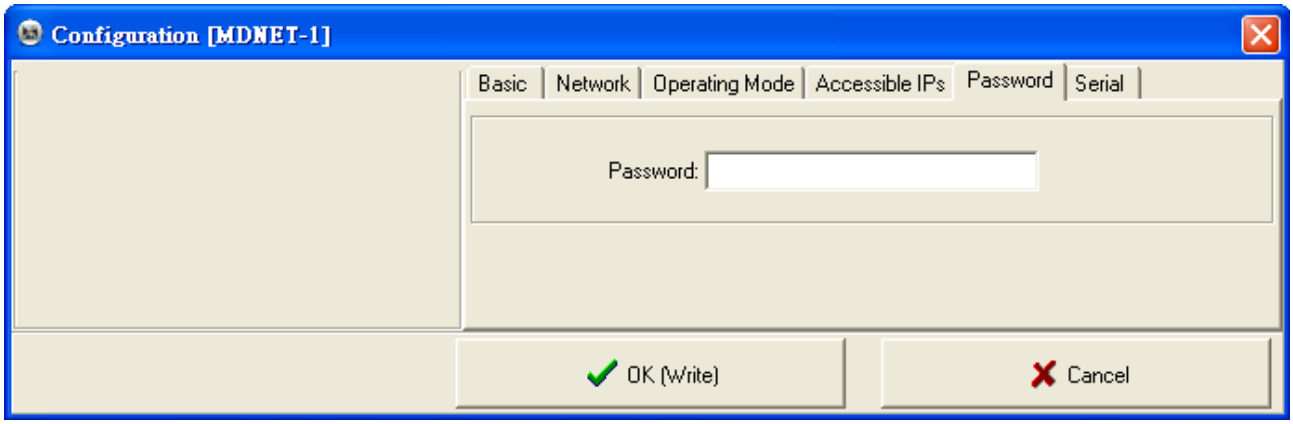
■ Configuration-Accessible IPs

The number of IP setting that can be used to access is up to 4.



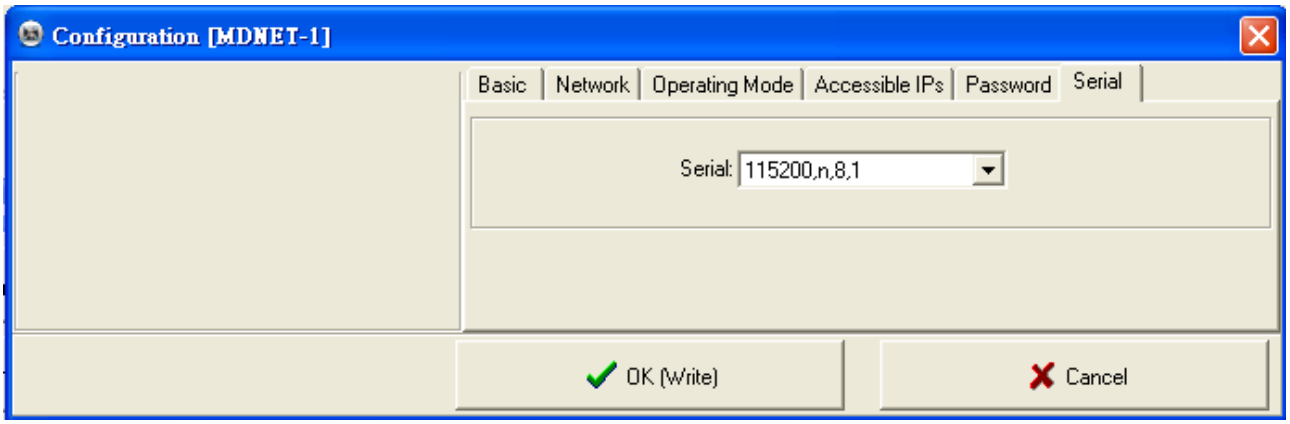
■ Configuration-Password

Setup the password that will be used when the user access into control mode.



■ Configuration-Serial

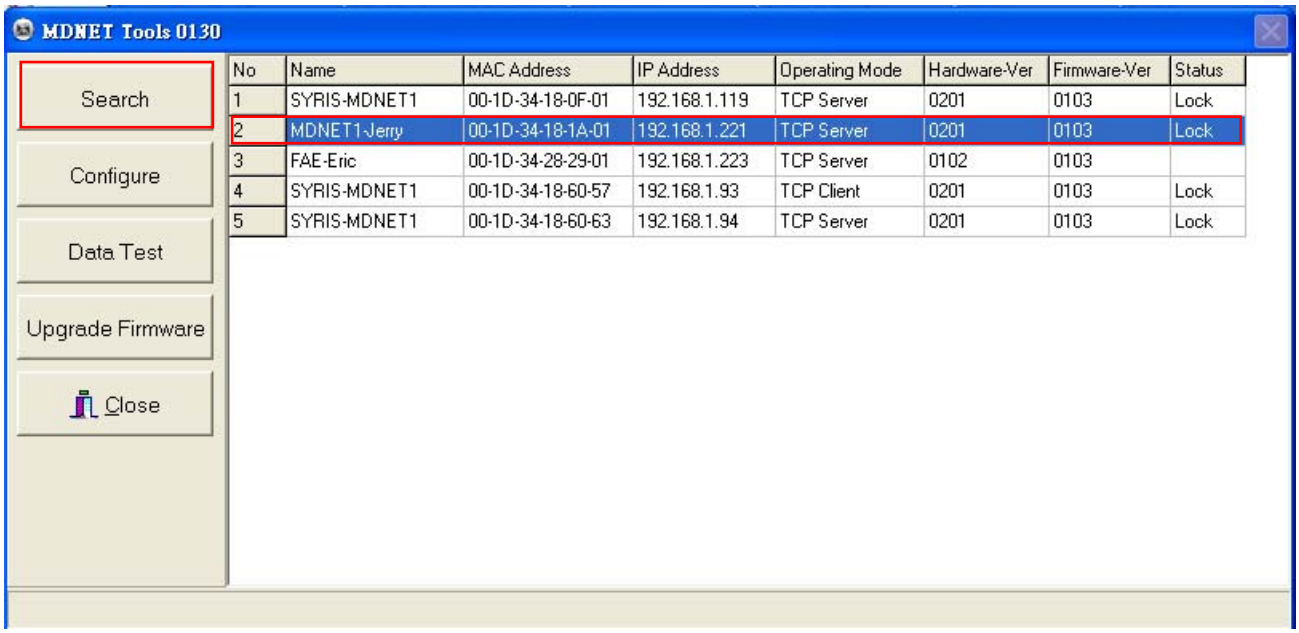
Setup baud rate.



MDNET Tools Operation Manual (English)

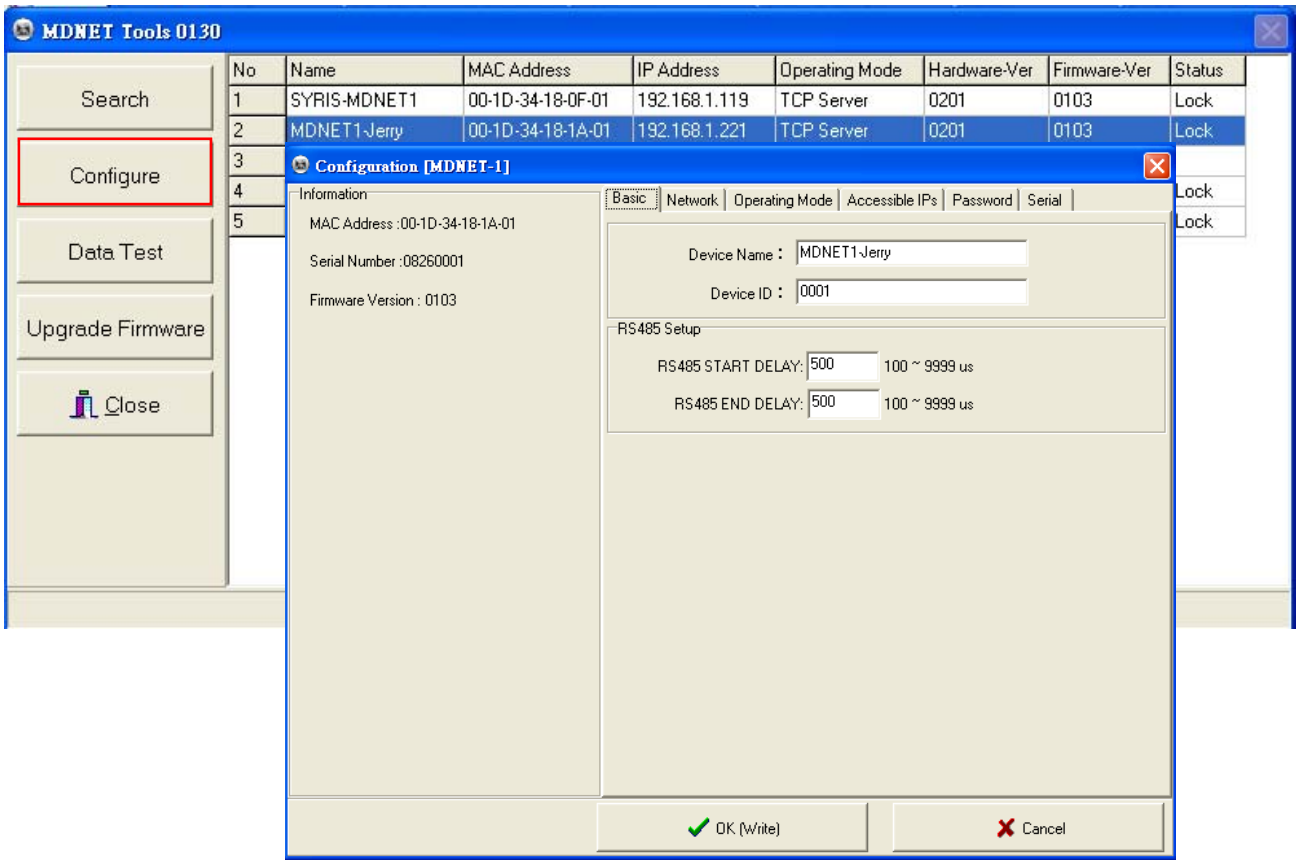
■ Search Device

Run MDNET_Tools then click **Search** to search device.



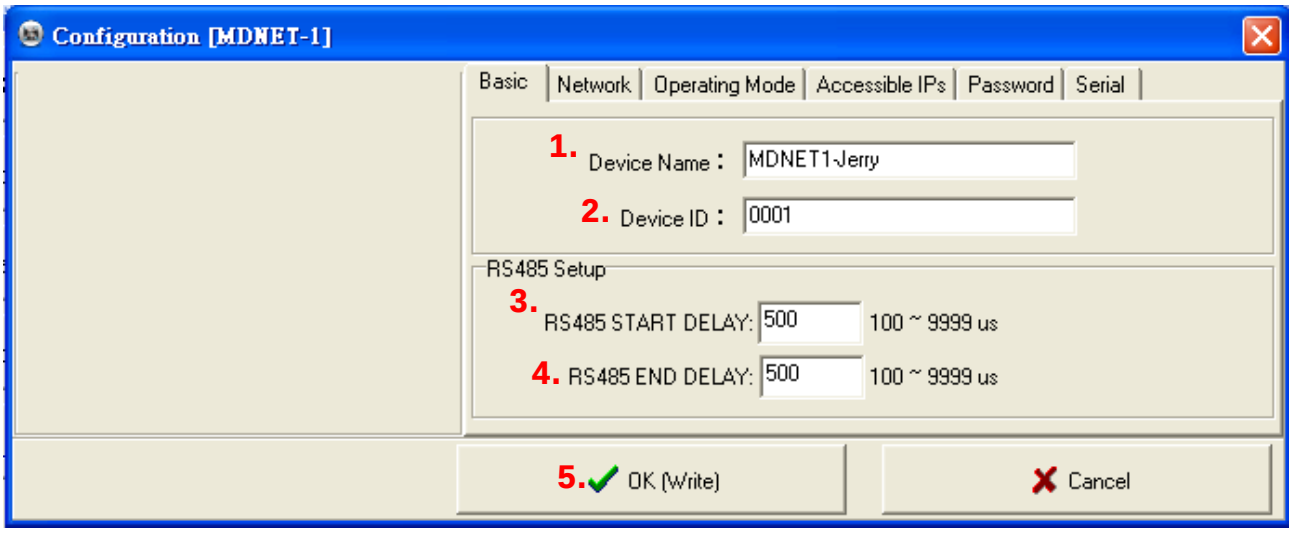
■ Configure

Double click device in dbgrid or select device then click Configure to switch into Configuration mode.



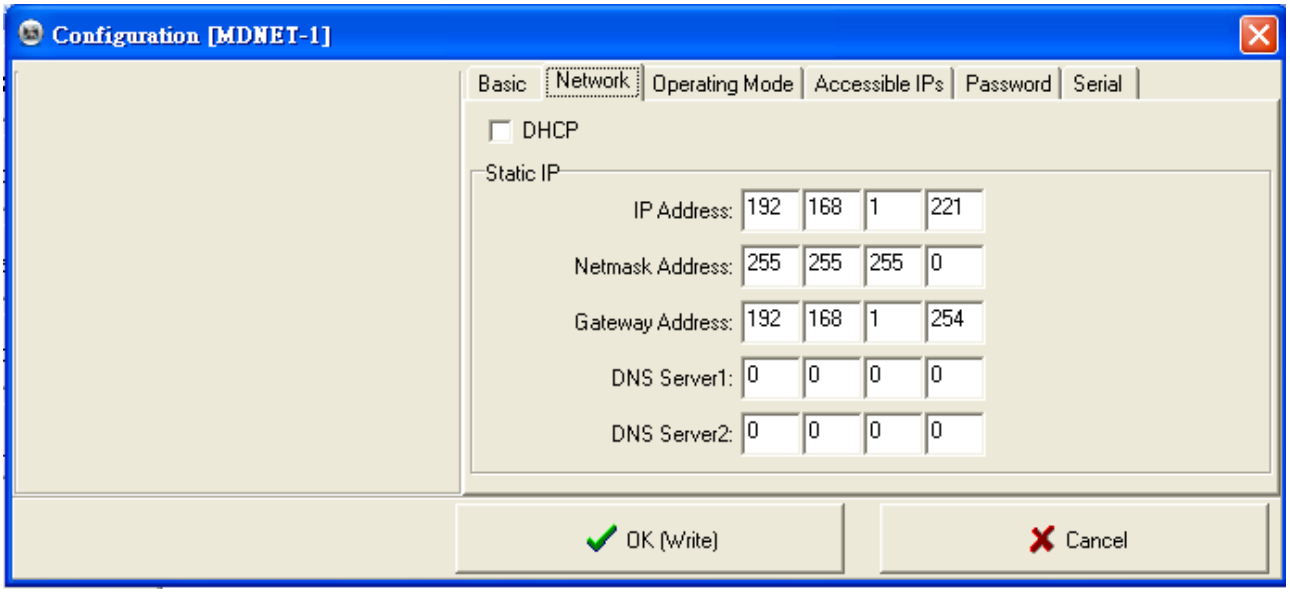
■ Configuration-Basic

1. Enter the device caption into the field of **Device Name**.
2. Enter the ID into the field of **Device ID**.
3. Enter the delay time into the field of **RS485 START DELAY**.
4. Enter the delay time into the field of **RS485 END DELAY**.
5. Check all the setting then click **OK(Write)** to write data into the device.



■ Configuration-Network

Choose **DHCP** or setup the IP information.



■ Configuration-Operating Mode

1. TCP Server Mode：Setup Local Port. The number of Max Connection is up to 4.

2. TCP Client Mode：The modes can be set as Any Character or Star up. The number of IP setting is up to 4.

3. UDP Mod：Setup Local Port. The number of IP setting is up to 4.

4. Data Packing：Setup data packing (The device will send the message while receiving specified character). Force Tx Timeout：The device will send the message after the setting time while without getting specified character.

5. Miscellaneous：TCP Alive Check Timeout—The device will break the connection while the time of connection equal the setting of Timeout.

Inactivity Timeout—The device will break the connection while no data transmitted in the setting period.