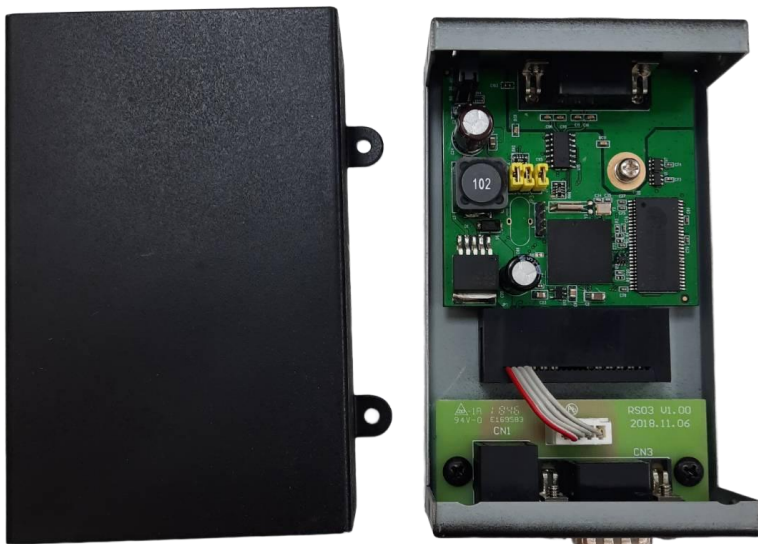


NET485 – Modbus Card Setup

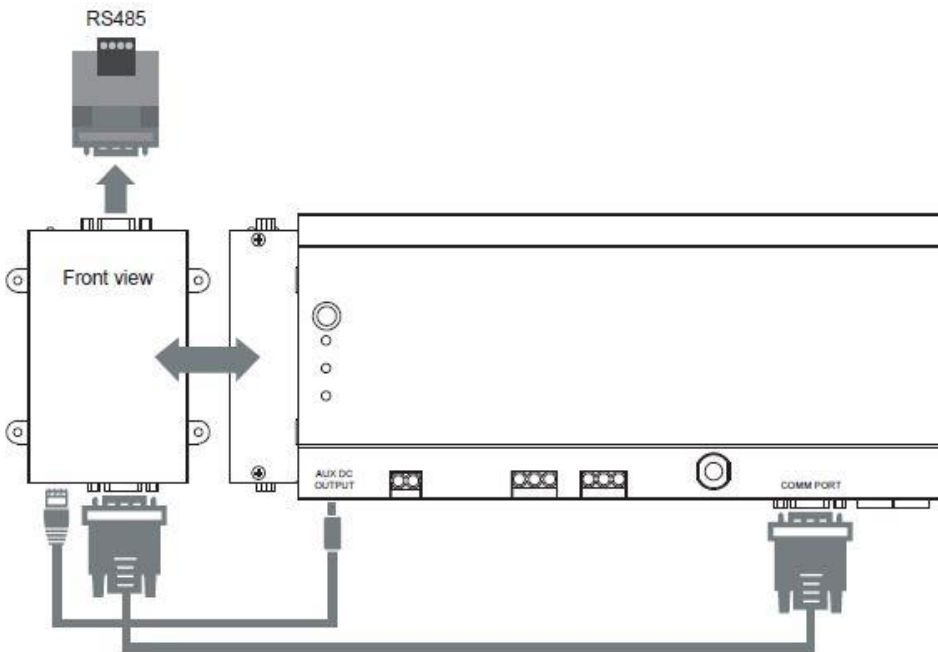
Step 1: Remove the screws from the cover of the communication card box



Step 2: Open the communication card box cover



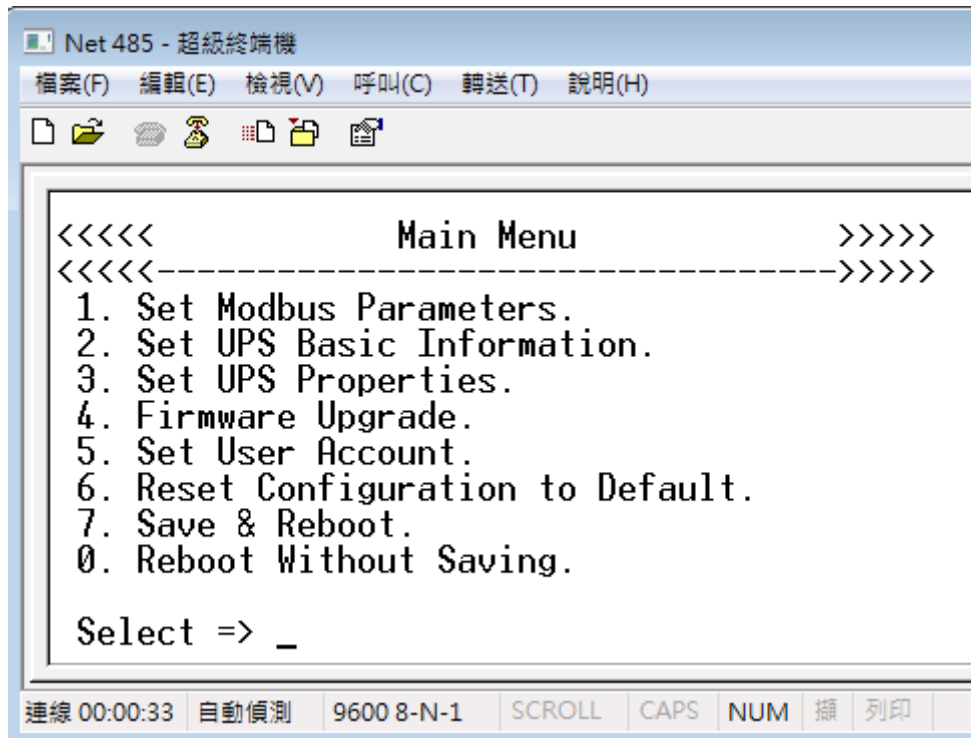
Step 3: Remove JP4 from the board



Step 4: Computer >> Hyperterminal >> COM Port >> NET485

==> Computer's serial port connect to NET485 directly (*not RS485*)

==> Hyperterminal >> Configuration >> **9600 : 8 : None : 1 : None**

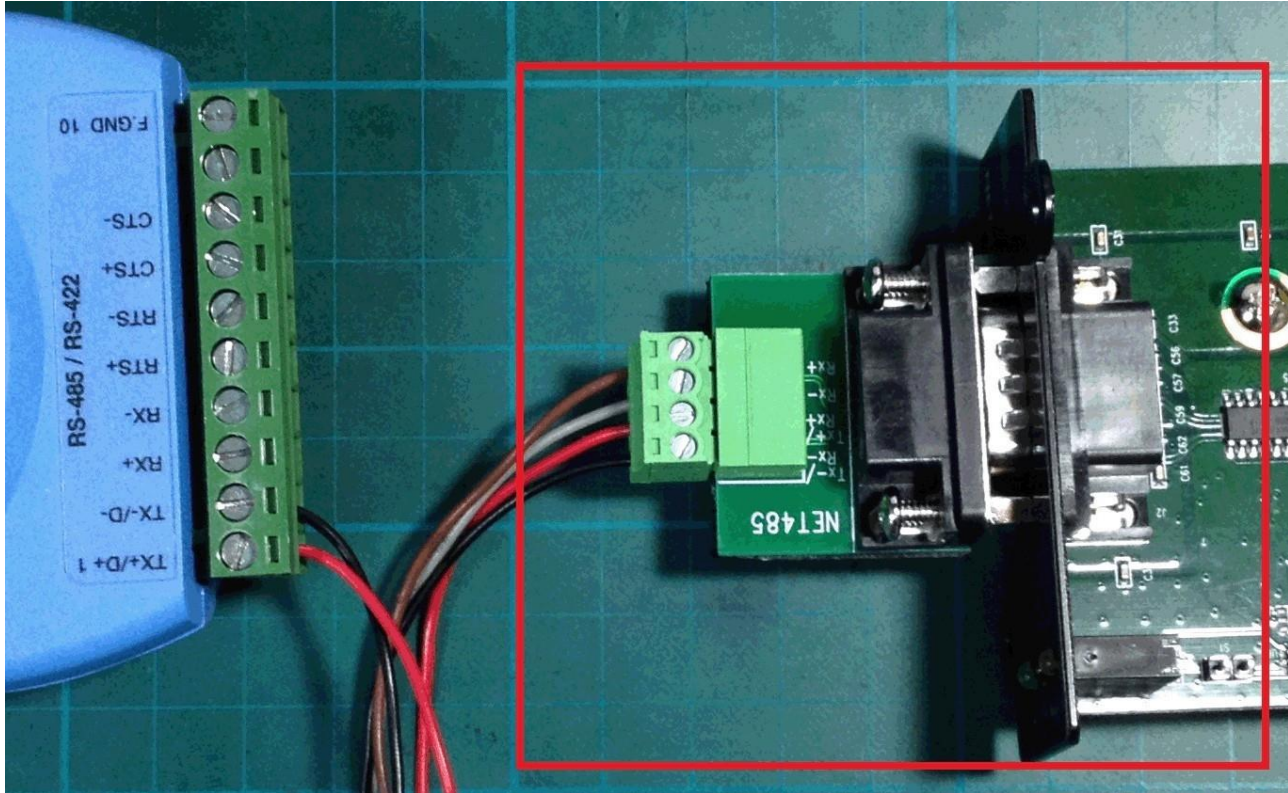


Select => **1**

- Address = 1
- **RTU mode**
- Baud Rate = **9600**
- **RS485**
- **Half Duplex**
- **Normal Mode**
- **Save and Reboot**

Step5 : Replug on JP4

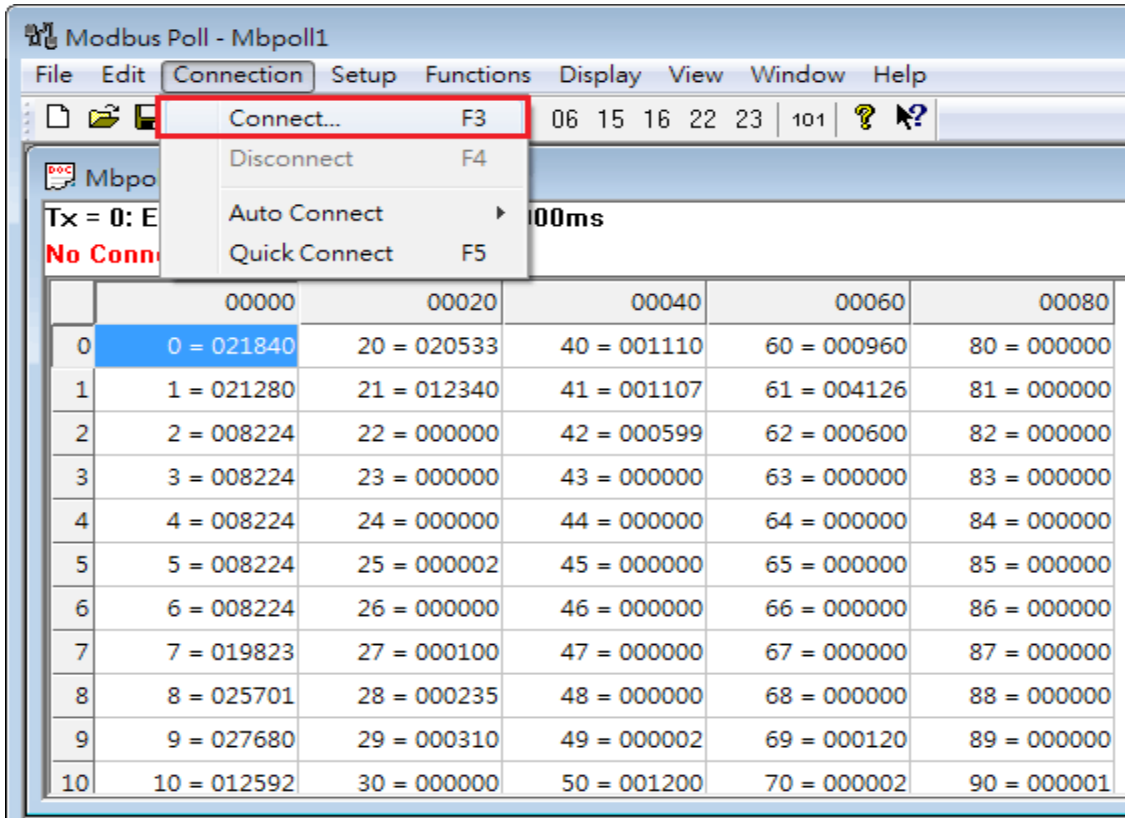
Step 6: Computer >> USB-to-RS485 Connector >> NET485



NET485-TX- connect Converter-TX-
NET485-TX+ connect Converter-TX+

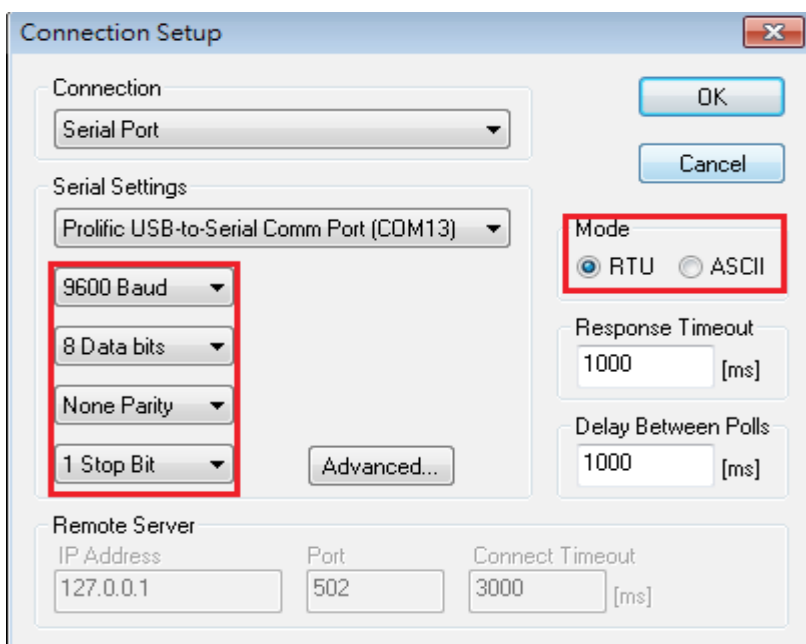
Step 7: Start application : Modbus Poll

==> Connection->Connect...



==> 9600 / N / 8 / 1

==> Mode RTU



Display ==> Signed+PLC Address(Base 1)

The screenshot shows the Modbus Poll application window. The 'Display' menu is open, showing various data display options. Two options are highlighted with red boxes: 'Signed' (with a checkmark and keyboard shortcut Alt+Shift+S) and 'PLC Addresses (Base 1)' (with a checkmark). The background shows a data table with columns for PLC addresses and their corresponding values.

	4x0000	4x0020			
1	40001 = 021840	40021 = 020533	40		
2	40002 = 021280	40022 = 012340	40		
3	40003 = 008224	40023 = 000000	40		
4	40004 = 008224	40024 = 000000	40		
5	40005 = 008224	40025 = 000000	40		
6	40006 = 008224	40026 = 000002	40		
7	40007 = 008224	40027 = 000000	40		
8	40008 = 019823	40028 = 000100	40		
9	40009 = 025701	40029 = 000235	40		
10	40010 = 027680	40030 = 000310	40050 = 000002	40070 = 000120	40090 = 000000
11	40011 = 012592	40031 = 000000	40051 = 001200	40071 = 000002	40091 = 000001

Setup-Read/Write Definition

- Function (03: Read 06: Write)
- Address
- Quantity
- View Rows

Read/Write Definition

Slave ID: 1

Function: 03 Read Holding Registers (4x)

Address: 1

Quantity: 100

Scan Rate: 1000 ms

Read/Write Enabled

View

Rows: 10 20 50 100

Display: Signed

Hide Alias Columns

Address in Cell

PLC Addresses (Base 1)

Buttons: OK, Cancel, Apply, Read/Write Once

As below result

Modbus Poll - Mbpoll1

Tx = 108: Err = 0: ID = 1: F = 03: SR = 1000ms

	4x0000	4x0020	4x0040	4x0060	4x0080
1	40001 = 021840	40021 = 020533	40041 = 001115	40061 = 000960	40081 = 000000
2	40002 = 021280	40022 = 012340	40042 = 001105	40062 = 004126	40082 = 000000
3	40003 = 008224	40023 = 000000	40043 = 000600	40063 = 000600	40083 = 000000
4	40004 = 008224	40024 = 000000	40044 = 000000	40064 = 000000	40084 = 000000
5	40005 = 008224	40025 = 000000	40045 = 000000	40065 = 000000	40085 = 000000
6	40006 = 008224	40026 = 000002	40046 = 000000	40066 = 000000	40086 = 000000
7	40007 = 008224	40027 = 000000	40047 = 000000	40067 = 000000	40087 = 000000
8	40008 = 019823	40028 = 000100	40048 = 000000	40068 = 000000	40088 = 000000
9	40009 = 025701	40029 = 000235	40049 = 000000	40069 = 000000	40089 = 000000
10	40010 = 027680	40030 = 000310	40050 = 000002	40070 = 000120	40090 = 000000
11	40011 = 012592	40031 = 000000	40051 = 001202	40071 = 000002	40091 = 000001

Modbus Register - Get

Register	Query Address	Size	Measurement	Notes
UPS Information Group				
40001 - 40007	0000 - 0006	14 characters	UPS Company Name	14 characters
40008 - 40012	0007 - 0011	10 characters	UPS Model	10 characters
40013 - 40017	0012 - 0016	10 characters	version number of the UPS firmware	10 characters
40018 - 40025	0017 - 0024	16 characters	firmware revision of the UPS SNMP Proxy agent.	16 characters
Battery Group				
40026	0025	UWORD	Battery Status	Integer Value: unknown(1), batteryNormal(2), batteryLow(3)
40027	0026	UWORD	Seconds on Battery	Seconds
40028	0027	UWORD	Battery Capacity	0-100%
40029	0028	UWORD	Battery Voltage	x0.01 VAC
40030	0029	UWORD	Battery Temperature	x0.1 °C
40031	0030	UWORD	Battery Current	x0.1 A
Input Group				
40040	0039	UWORD	Input Line Voltage	x0.1 VAC
40041	0040	UWORD	Input Max Line Voltage	x0.1 VAC
40042	0041	UWORD	Input Min Line Voltage	x0.1 VAC
40043	0042	UWORD	Input Frequency	x0.1 Hz
Output Group				
40050	0049	UWORD	Output Status	Integer Value: unknown(1), onLine(2), onBattery(3), onBoost(4), sleeping(5), onBypass(6), rebooting(7), standBy(8), onBuck(9)
40051	0050	UWORD	Output Voltage	x0.1 VAC
40052	0051	UWORD	Output Frequency	x0.1 Hz
40053	0052	UWORD	Output Load	0-100%
Rating Group				
40060	0059	UWORD	Rating Voltage	x0.1 VAC
40061	0060	UWORD	Rating Power	VA
40062	0061	UWORD	Rating Battery Voltage	x0.01 VAC
40063	0062	UWORD	Rating Frequency	x0.1 Hz

Modbus Register – Set

Register	Query Address	Size	Measurement	Notes
40070	0069	UWORD	Config ups Shut off Delay	The delay in seconds the UPS remains on after being told to turn off. Allowed values are 12, 18, 24, 30, 36, 42, 48, 54, 60, 120, 180, 240, 300, 360, 420, 480, 540, and 600 seconds.
40080	0079	UWORD	Control UPS Off	Integer Value: turnUpsOff(2)
40071	0070	UWORD	Config Ups Sleep Time	Integer Value: 1 - 9999
40081	0080	UWORD	Control Reboot Ups	Integer Value: rebootUps(2)
40082	0081	UWORD	Control UPS Sleep	Integer Value: noPutUpsToSleep(1), putUpsToSleep(2)
40083	0082	UWORD	Control Simulate Power Fail	Integer Value: simulatePowerFailure(2)
40084	0083	UWORD	Control Flash And Beep	Integer Value: flashAndBeep(2)
40085	0084	UWORD	Control Turn On UPS Load	Integer Value: upsSmartControlTurnOnUpsLoad(2)