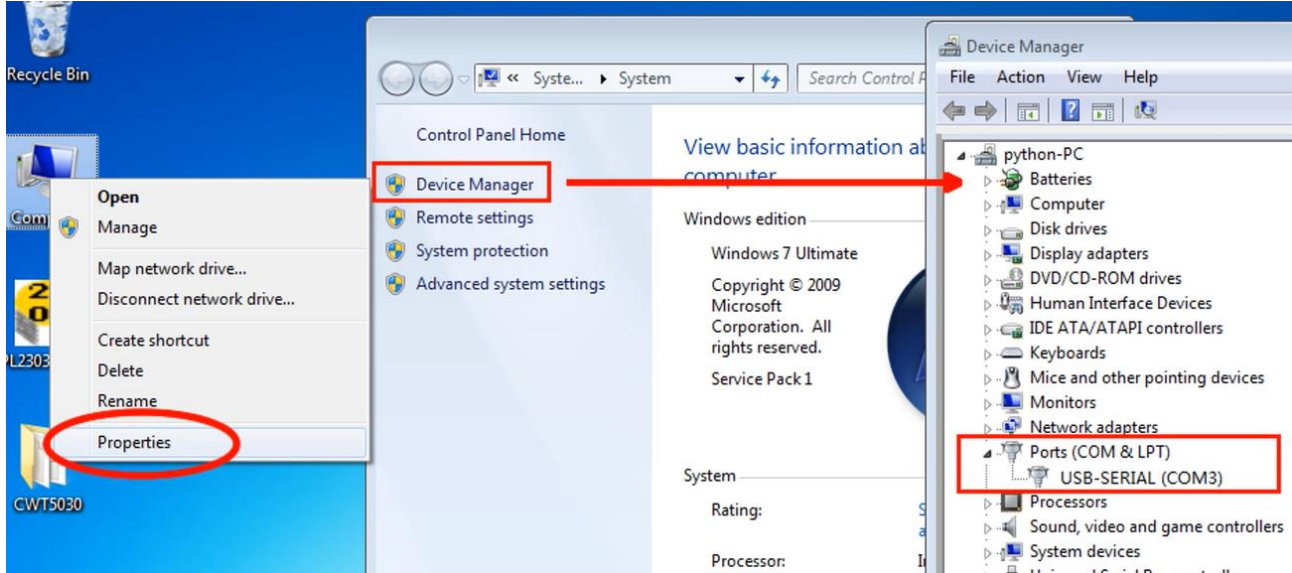


Test by Modbus poll

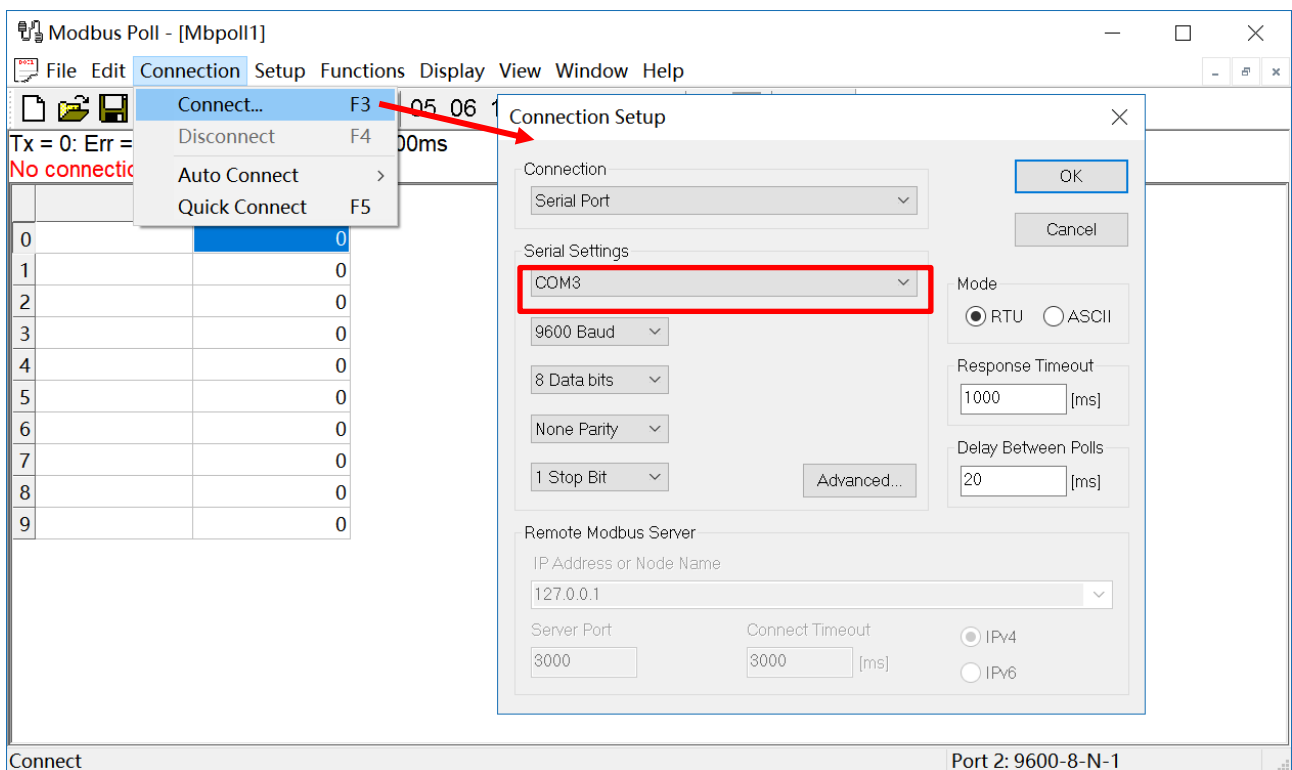
1. Connect LoRa modem to PC by USB.

After Install USB drive, there is COM port in device manager.



2. Run Modbus Poll

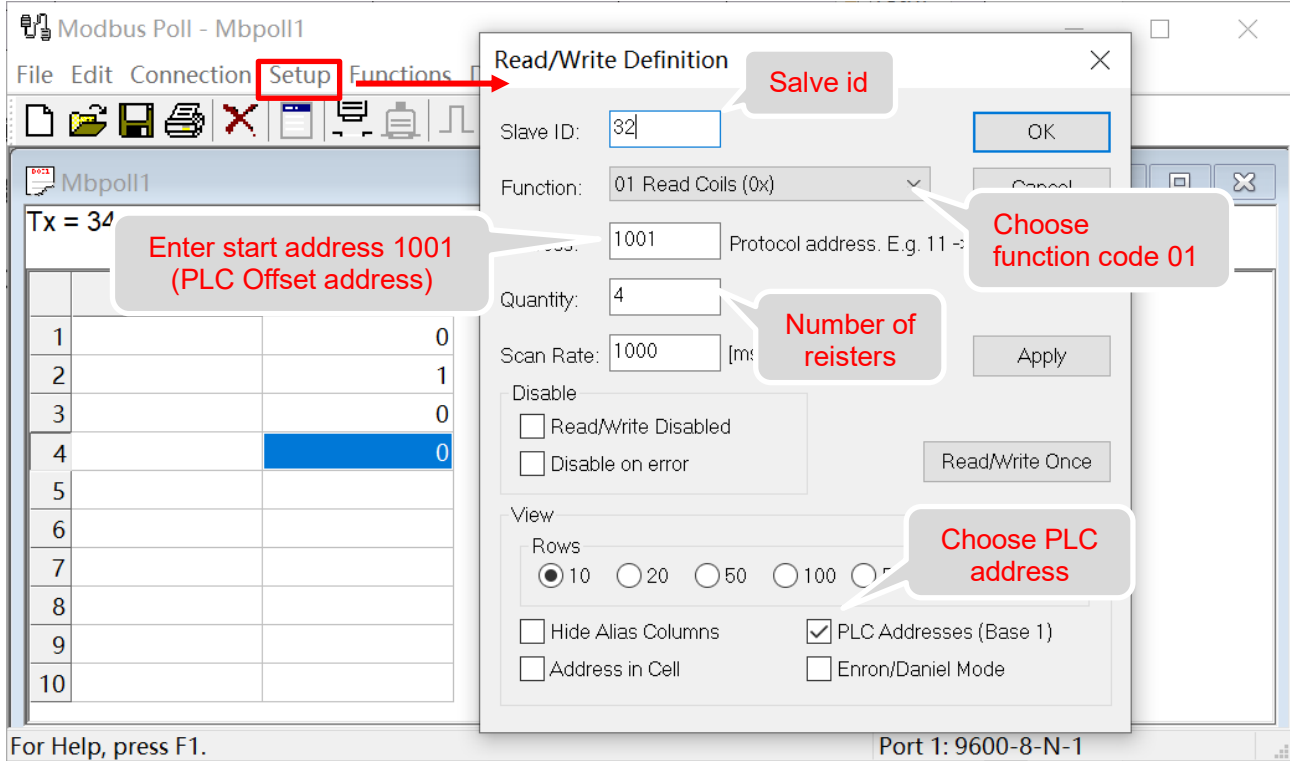
Connect the com port



CWT LoRa RTU default slave id is 32

1. Read digital input

For example, read 4 channels of Di, slave id=32



Read/Write Definition

Slave ID: 32

Function: 01 Read Coils (0x)

Start Address: 1001 Protocol address. E.g. 11 ->

Quantity: 4

Scan Rate: 1000 [ms]

Disable

☐ Read/Write Disabled

☐ Disable on error

View

Rows

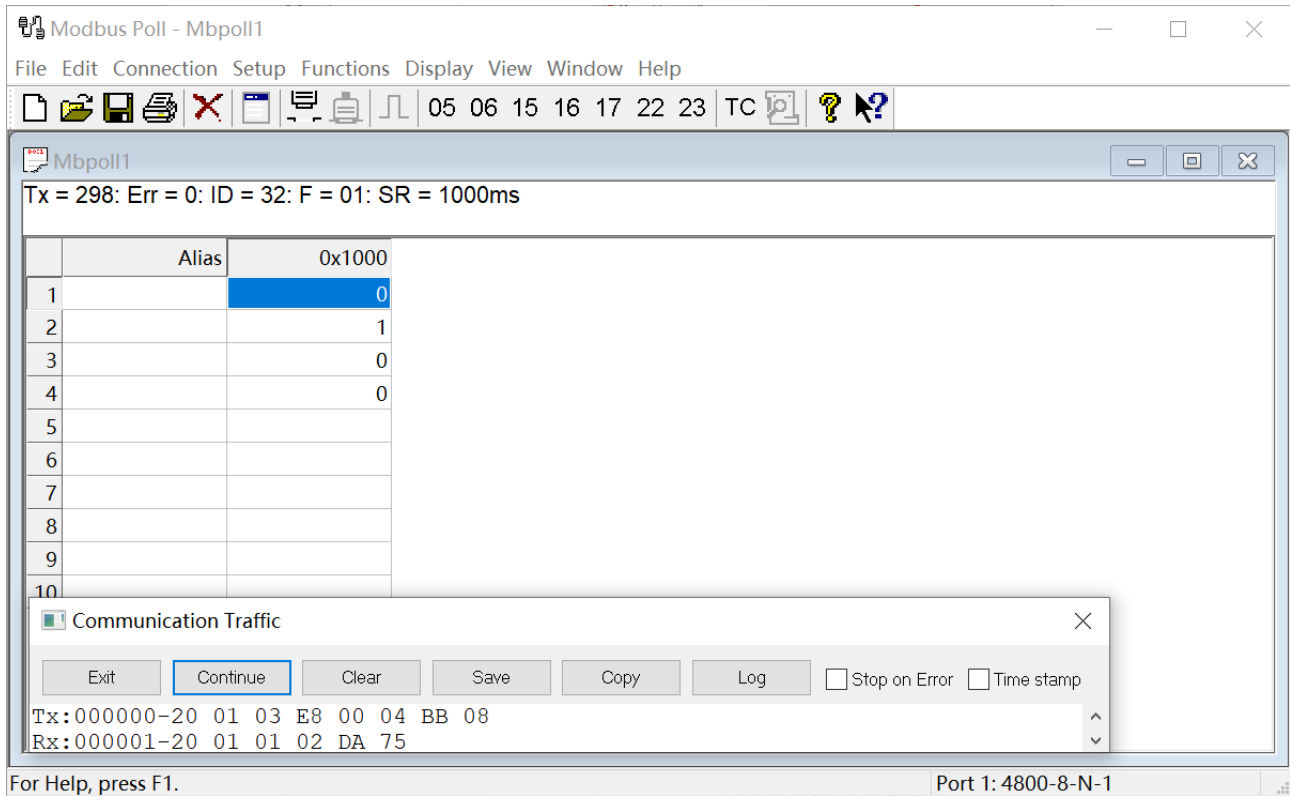
☒ 10 ☐ 20 ☐ 50 ☐ 100 ☐ 500

☐ Hide Alias Columns ☒ PLC Addresses (Base 1)

☐ Address in Cell ☐ Enron/Daniel Mode

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

For Help, press F1. Port 1: 9600-8-N-1



Modbus Poll - Mbpoll1

File Edit Connection Setup Functions Display View Window Help

05 06 15 16 17 22 23 TC ? ?

Tx = 298: Err = 0: ID = 32: F = 01: SR = 1000ms

	Alias	0x1000
1		0
2		1
3		0
4		0
5		
6		
7		
8		
9		
10		

Communication Traffic

Exit Continue Clear Save Copy Log ☐ Stop on Error ☐ Time stamp

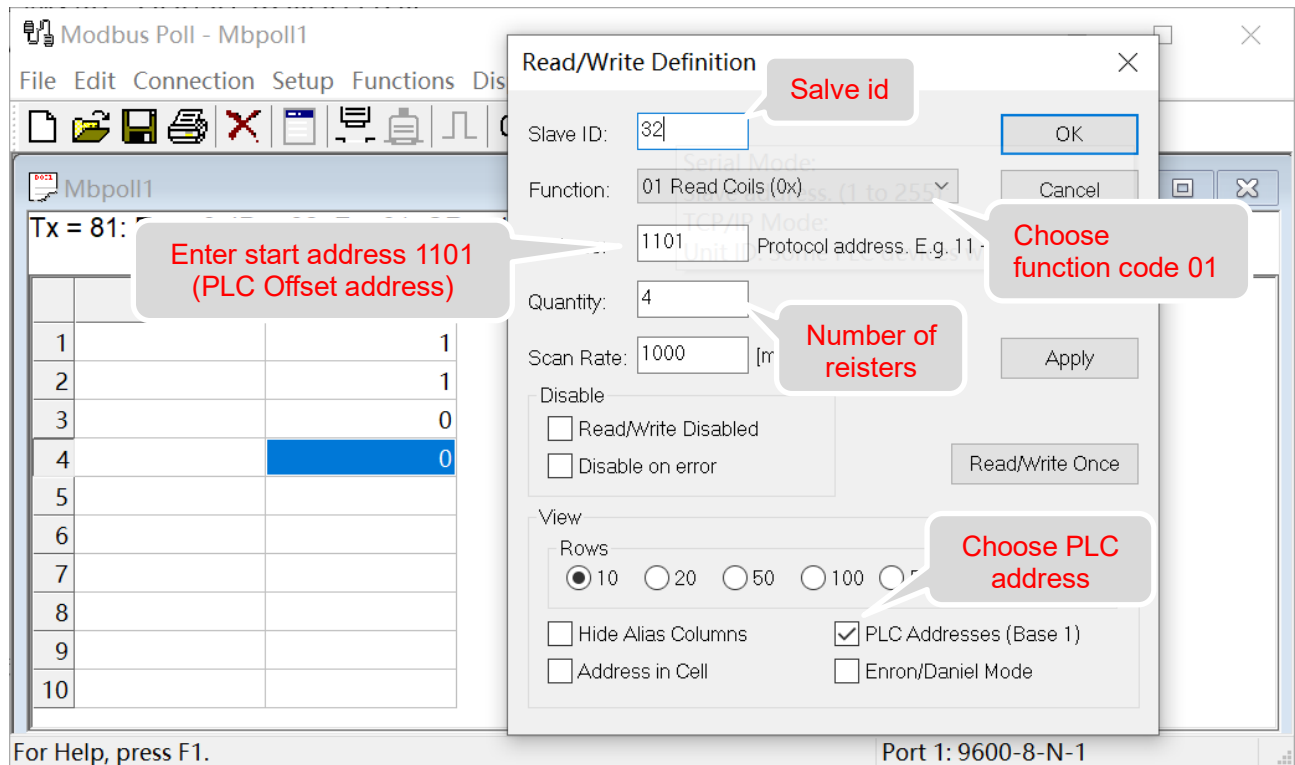
Tx: 000000-20 01 03 E8 00 04 BB 08

Rx: 000001-20 01 01 02 DA 75

For Help, press F1. Port 1: 4800-8-N-1

2. Read digital output

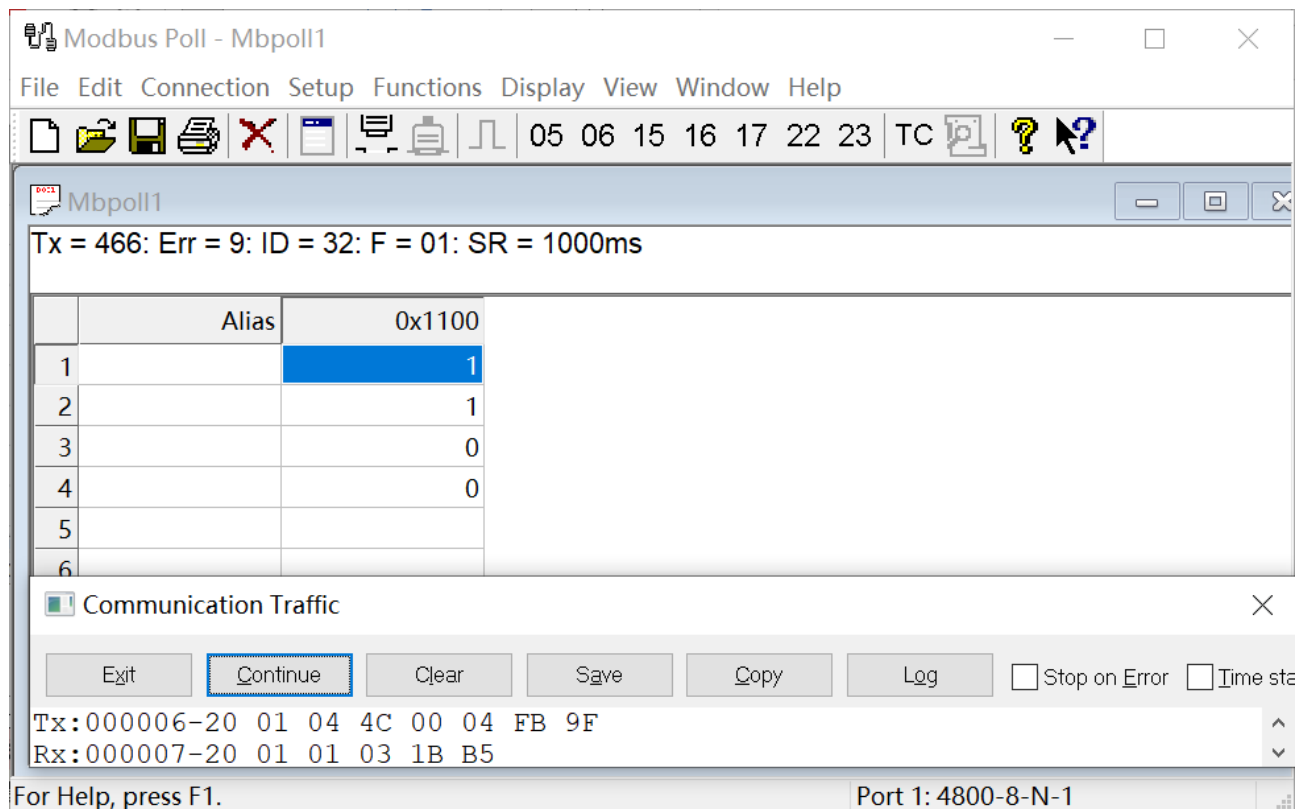
For example, read 4 channels of Do, slave id=32



The screenshot shows the 'Read/Write Definition' dialog box in the Modbus Poll application. The dialog is configured with the following values:

- Slave ID:** 32 (Annotated: **Slave id**)
- Function:** 01 Read Coils (0x) (Annotated: **Choose function code 01**)
- Start Address:** 1101 (Annotated: **Enter start address 1101 (PLC Offset address)**)
- Quantity:** 4 (Annotated: **Number of registers**)
- Scan Rate:** 1000 [ms]
- View:** Rows (10 selected) (Annotated: **Choose PLC address**)
- Options:**
 - ☐ Read/Write Disabled
 - ☐ Disable on error
 - ☐ Hide Alias Columns
 - ☒ PLC Addresses (Base 1)
 - ☐ Enron/Daniel Mode

The background shows a table with 10 rows and 2 columns. The first column contains numbers 1-10, and the second column contains values 1, 1, 0, 0, and then empty cells for rows 5-10. The status bar at the bottom indicates 'Port 1: 9600-8-N-1'.



The screenshot shows the main interface of the Modbus Poll application. The status bar at the top indicates 'Tx = 81:'. The main display area shows a table with 10 rows and 2 columns. The first column contains numbers 1-10, and the second column contains values 1, 1, 0, 0, and then empty cells for rows 5-10. The status bar at the bottom indicates 'Port 1: 4800-8-N-1'.

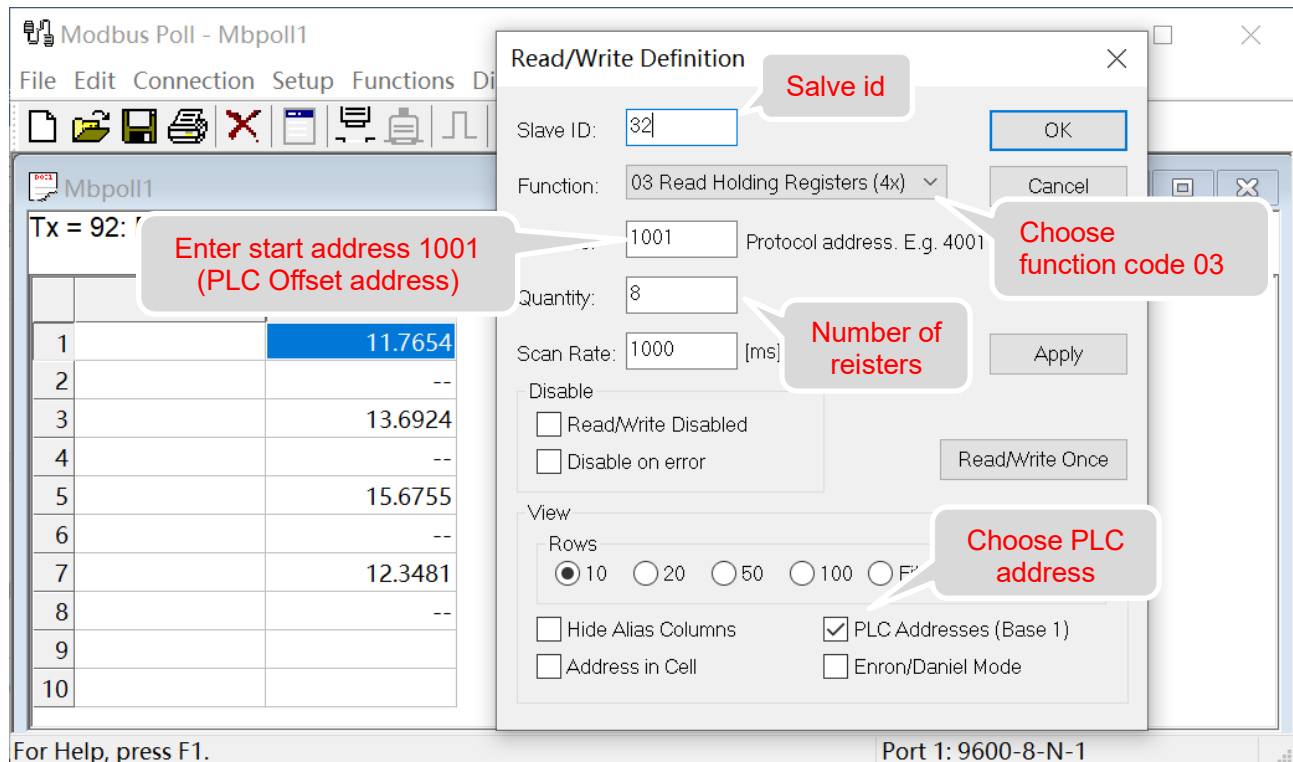
The 'Communication Traffic' window is open, showing the following data:

- Tx:** 000006-20 01 04 4C 00 04 FB 9F
- Rx:** 000007-20 01 01 03 1B B5

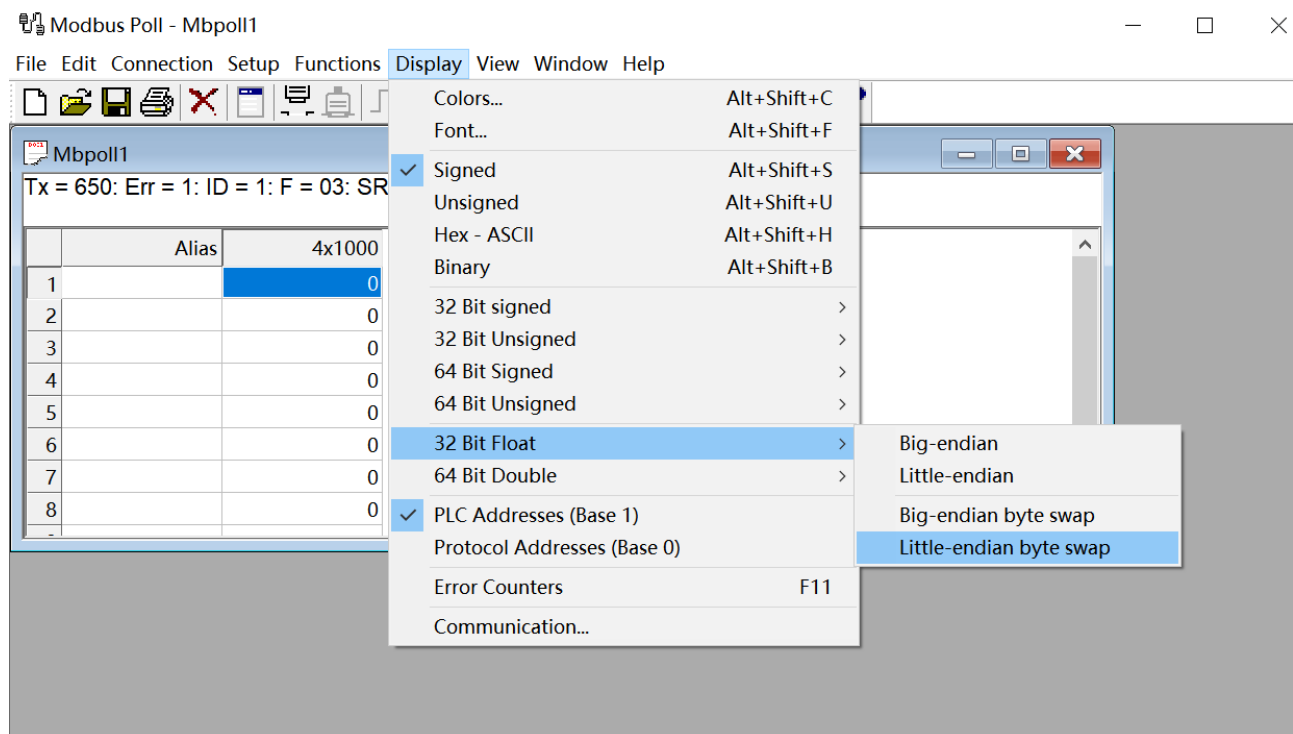
The status bar at the bottom indicates 'Port 1: 4800-8-N-1'.

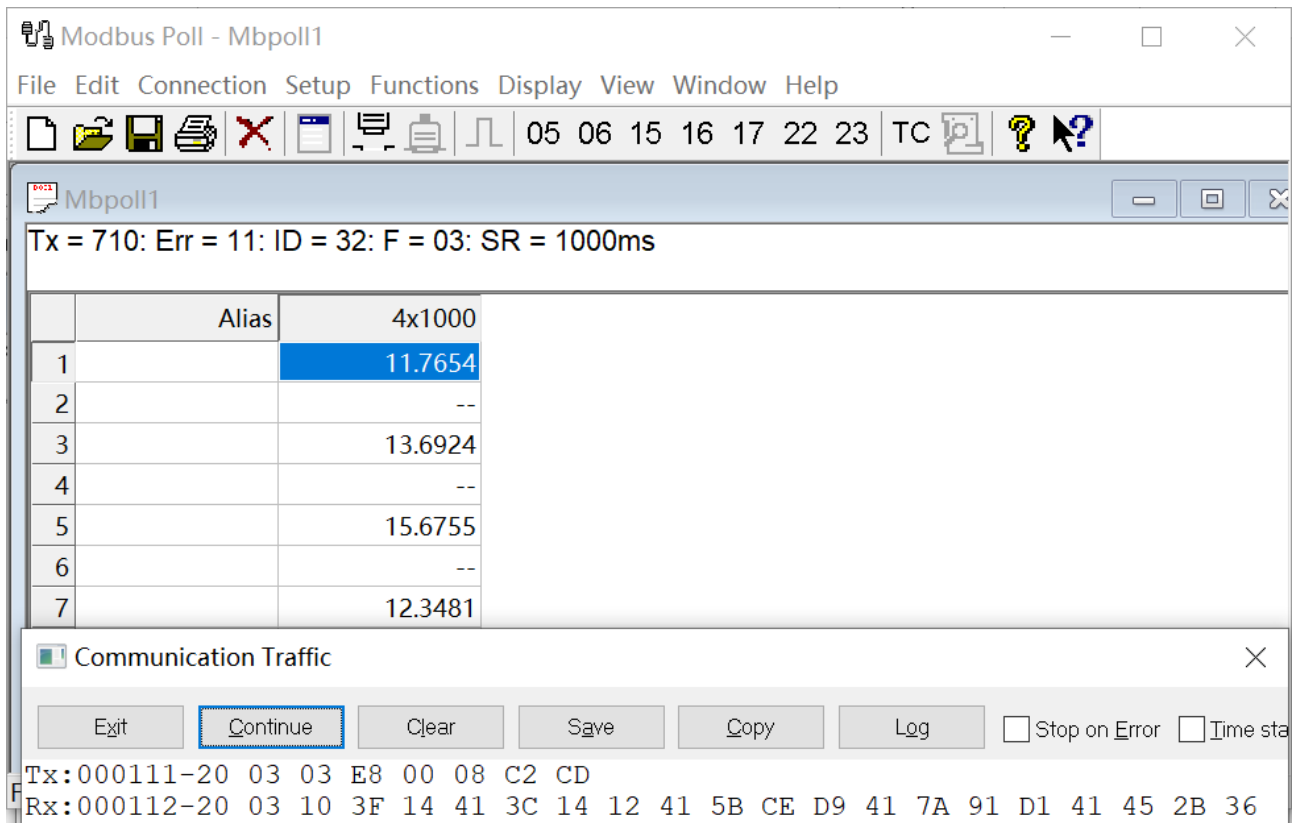
3. Read analog input

For example, read 4 channels of Ai, slave id=32



Choose 32 Bit float





Modbus Poll - Mbpoll1

File Edit Connection Setup Functions Display View Window Help

Tx = 710: Err = 11: ID = 32: F = 03: SR = 1000ms

	Alias	4x1000
1		11.7654
2		--
3		13.6924
4		--
5		15.6755
6		--
7		12.3481

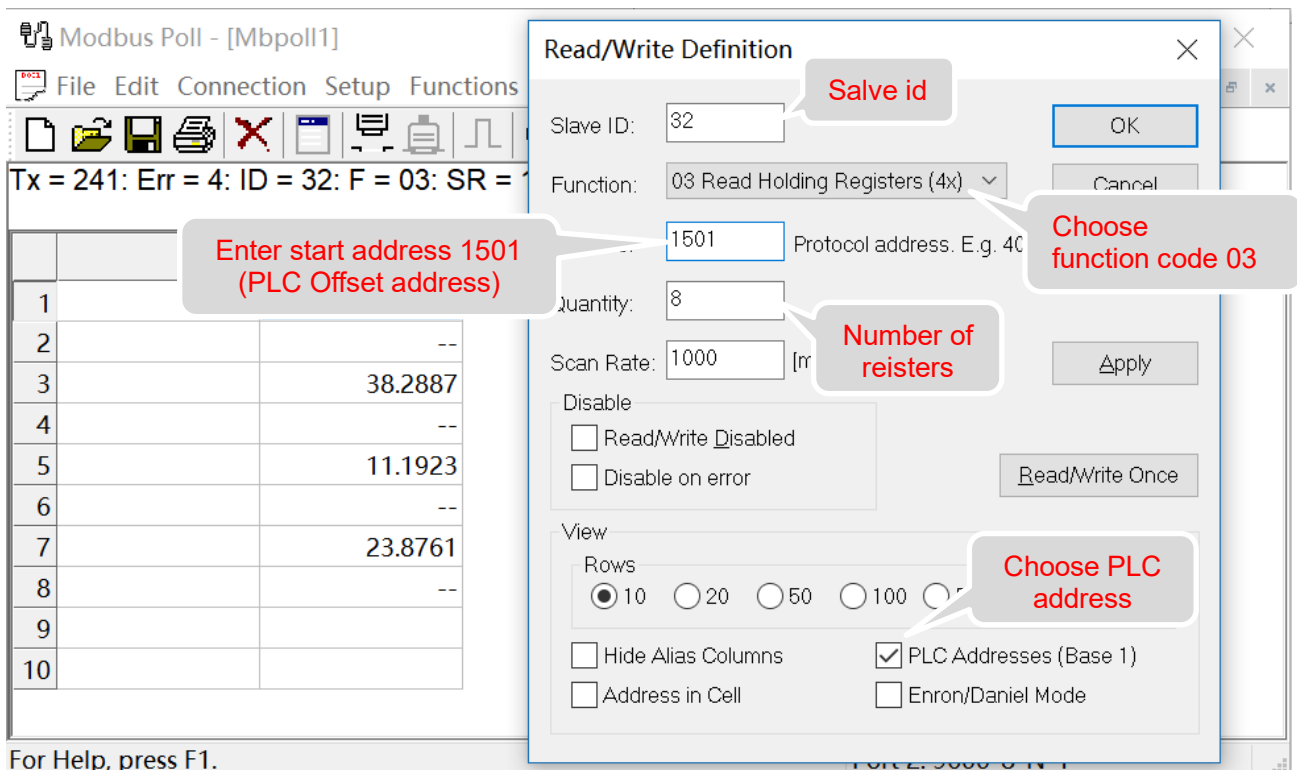
Communication Traffic

Exit Continue Clear Save Copy Log ☐ Stop on Error ☐ Time sta

Tx:000111-20 03 03 E8 00 08 C2 CD
Rx:000112-20 03 10 3F 14 41 3C 14 12 41 5B CE D9 41 7A 91 D1 41 45 2B 36

4. Read temperature input

For example, read 4 channels of Ti, slave id=32



Modbus Poll - [Mbpoll1]

File Edit Connection Setup Functions

Tx = 241: Err = 4: ID = 32: F = 03: SR =

1		
2		--
3		38.2887
4		--
5		11.1923
6		--
7		23.8761
8		--
9		
10		

Read/Write Definition

Slave ID: 32 (Slave id)

Function: 03 Read Holding Registers (4x) (Choose function code 03)

Start Address: 1501 (Enter start address 1501 (PLC Offset address))

Quantity: 8 (Number of registers)

Scan Rate: 1000 [ms]

Disable ☐ Read/Write Disabled ☐ Disable on error

View Rows: ☒ 10 ☐ 20 ☐ 50 ☐ 100

☐ Hide Alias Columns ☒ PLC Addresses (Base 1) (Choose PLC address) ☐ Enron/Daniel Mode

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

For Help, press F1.

Choose 32 Bit float

