

User Guide for Modbus Configuration Tool

AUG-2020

Daviteq Modbus Configuration Tool

HW Ver.	Release Date
1.0	NOV-2019
1.4	OCT-2020
2.03	DEC-2021

1. Install Tool

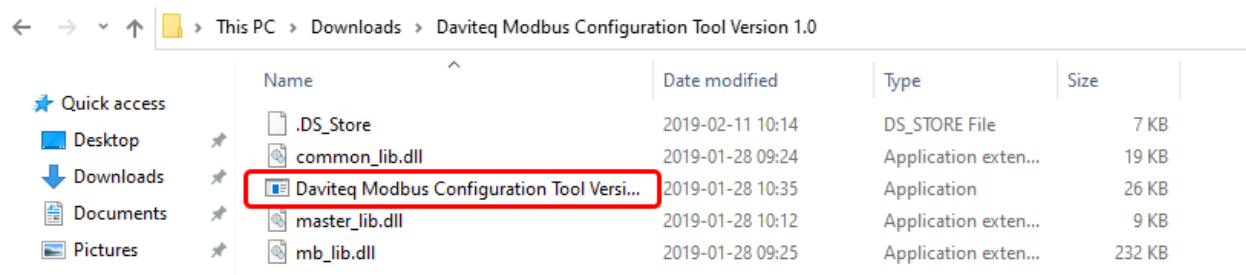
1.1 Download Tool

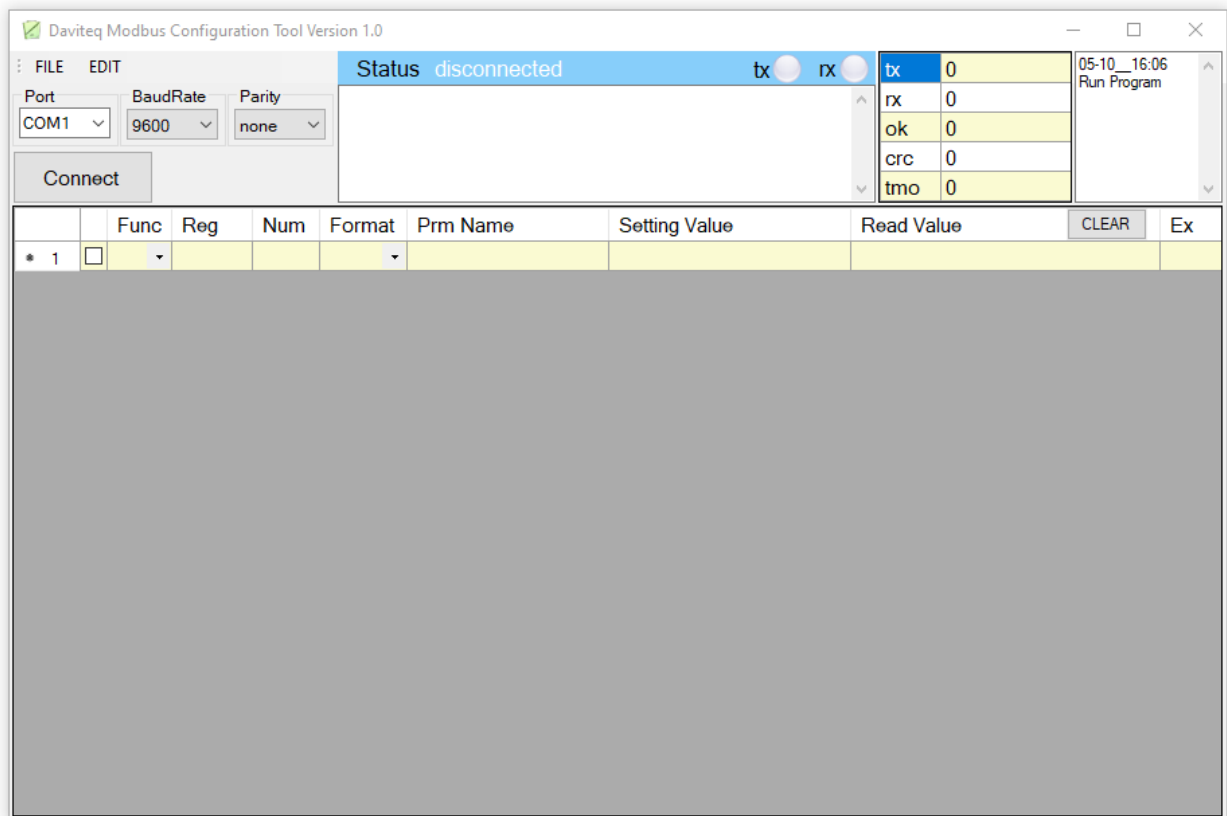
Install the Modbus Configuration Software in the link below

<https://filerun.daviteq.com/wl/?id=yDOJE5d6kqFIGNVVIMdFg19Aad6aw0Hs>

2.2 Running Tool

After unzip file, open the folder and run the application **Daviteq Modbus Configuration Tool Version**).





2. Configuration

2.1 Connection

Step 1: Connect the configuration cable to the PC and Modbus device.

USB-RS485 CONFIGURATION CABLE



STHC-ISG02DB-WS433-CL-04-H8.PNG

CONNECT RS485 - CONFIGURATION TO COMPUTER via USB



STHC-ISG02DB-WS433-CL-04-H13.PNG

SUPPLY POWER 12-24VDC



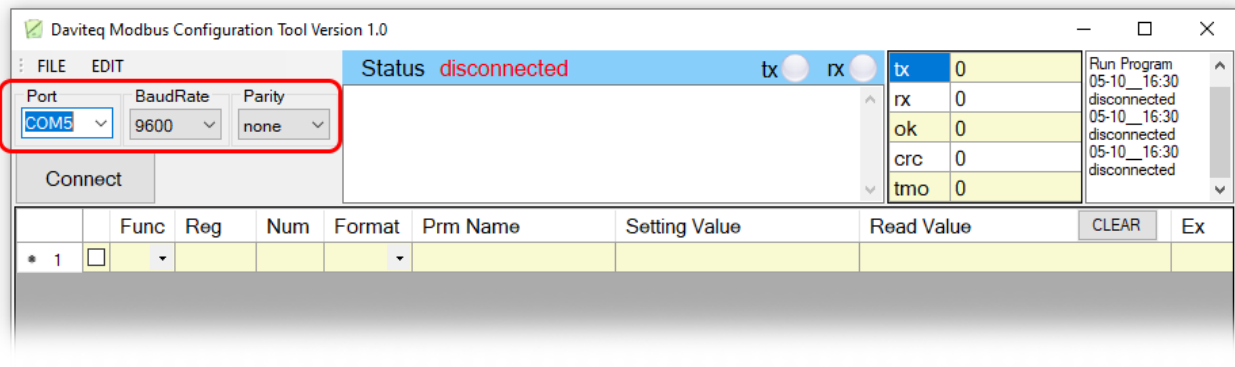
STHC-ISG02DB-WS433-CL-04-H11.PNG

CONNECT TO RS485 - CONFIGURATION
CABLE via M12 CONNECTOR



STHC-ISG02DB-WS433-CL-04-H12.PNG

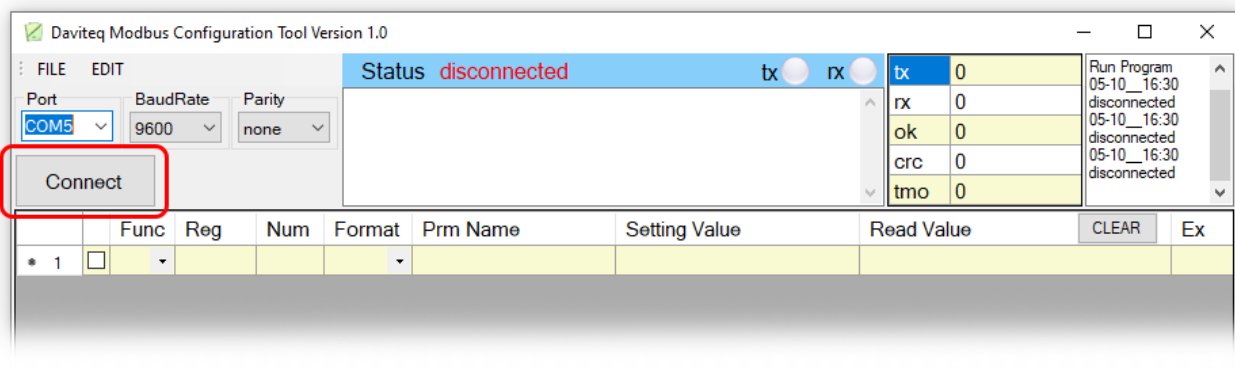
Step 2: Choose **COM Port** (the Port which is USB cable plugged in). Set the **BaudRate: 9600**, **Parity: none**

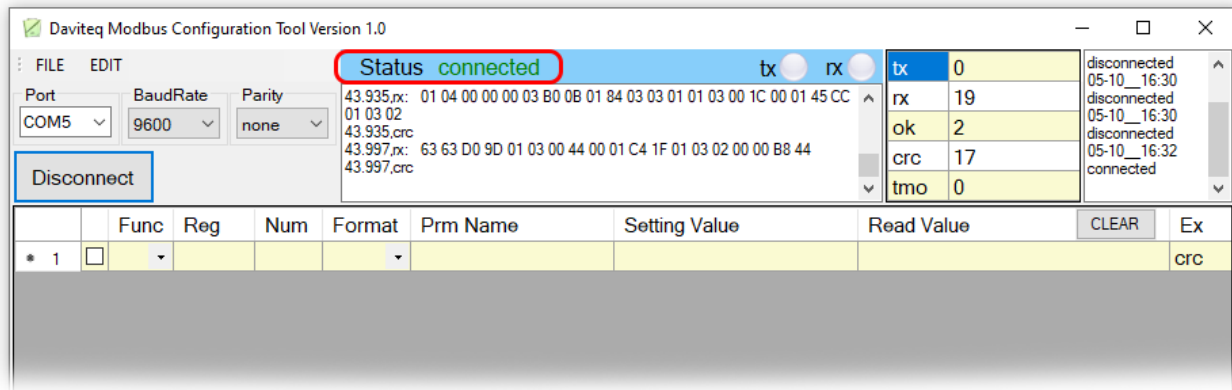


If you don't see any COM port in the list, please download the following driver and install

- Modbus Configuration Cable COM port driver for PC
How to install driver

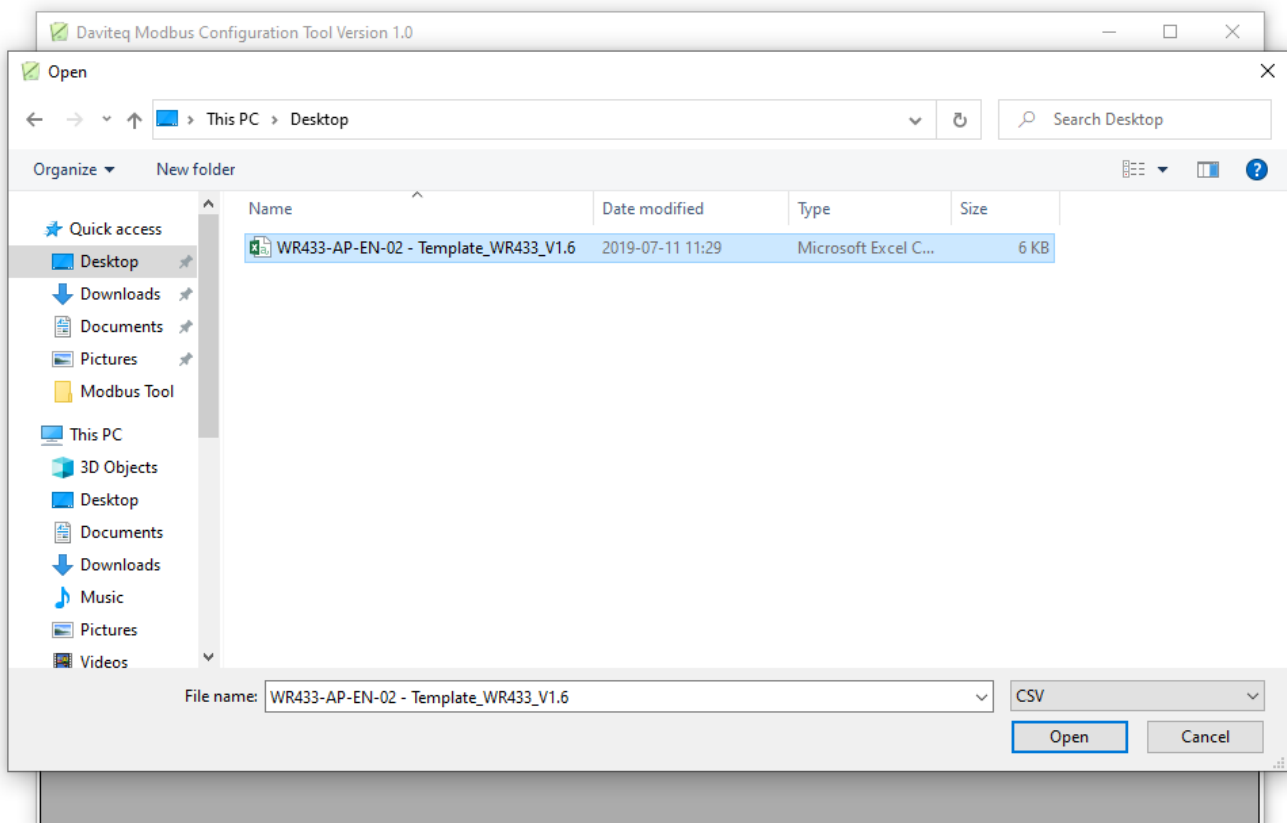
Step 3: Click “**Connect**” until the Status displays “**disconnected**” to “**connected**”. It means the Modbus device is being connected with computer;

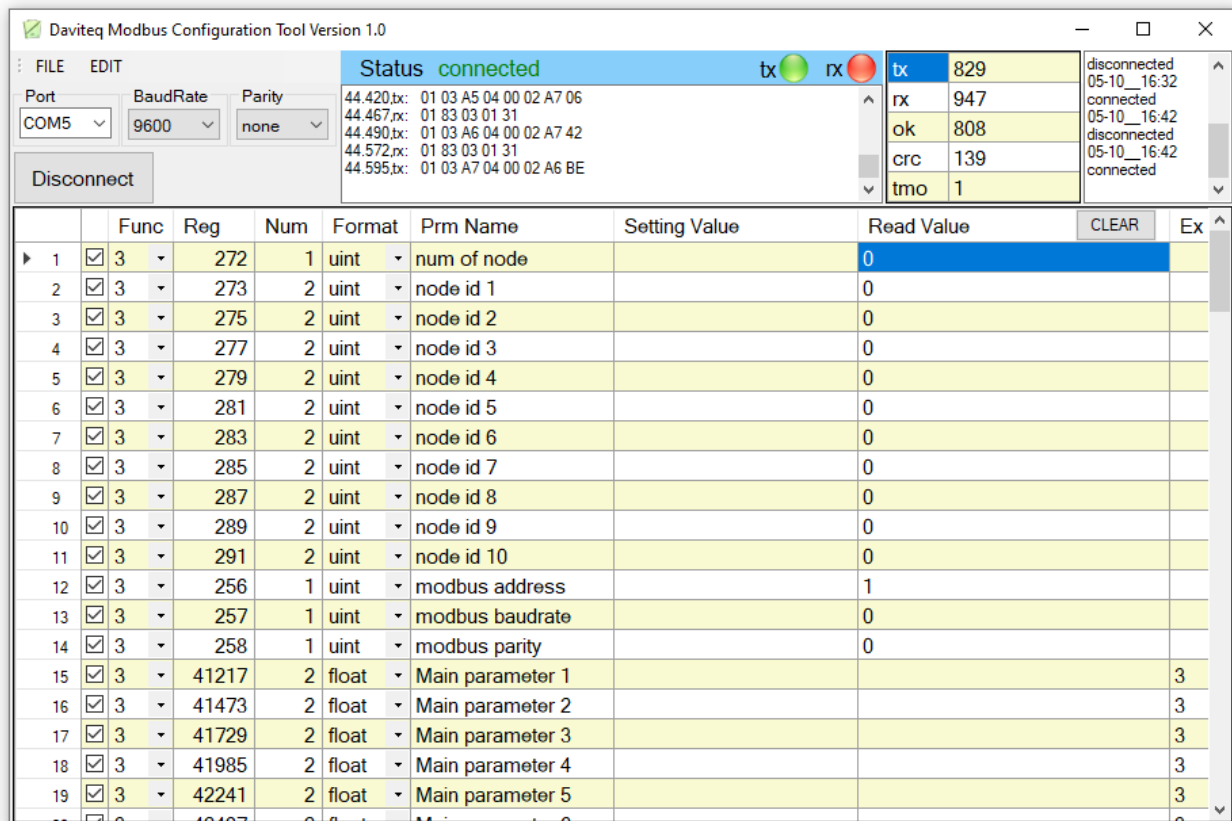




Step 4: Import the configuration file for Modbus Device by importing the csv file: Go to MENU: FILE / Import New / Then select the template file.

Example: We import template file of Wireless Co-ordinator WR433-AP-EN-02 - Template_WR433_V1.6.csv





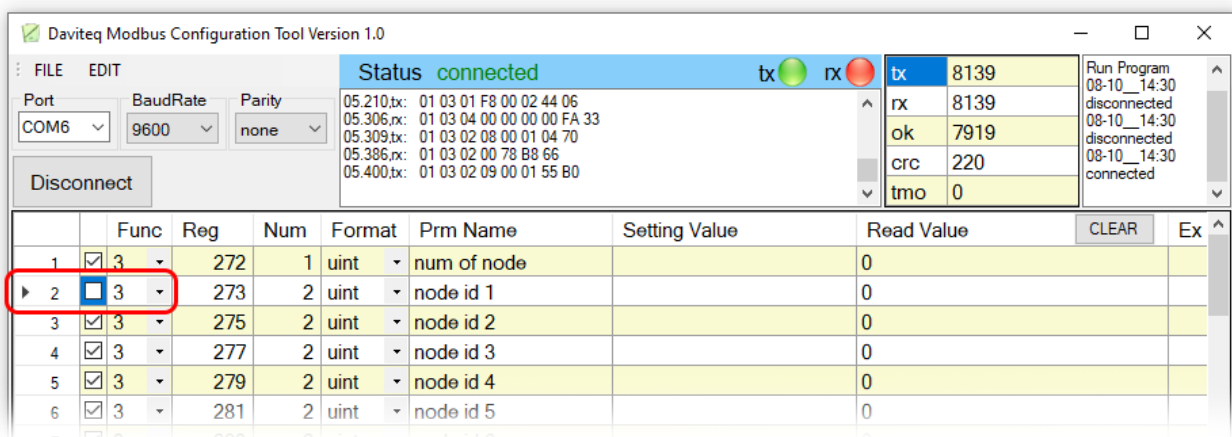
There are 3 Function:

- Function **3**: Read holding registers
- Function **4**: Read input registers
- Function **16**: Preset Multiple registers

2.1 Write Value into Modbus Device with Function 16

Example: We change the value **Node id 1** from **0** to **12345678** using Func 16.

Step 1: Uncheck Func 3, then Click on the arrow and change Func from **3** to **16**;



Daviteq Modbus Configuration Tool Version 1.0

FILE EDIT

Port: COM6 BaudRate: 9600 Parity: none

Disconnect

Status: **connected** tx rx

16.438.tx: 01 03 A4 03 00 01 57 3A
 16.499.rx: 01 83 03 01 31
 16.514.tx: 01 03 A5 03 00 01 56 C6
 16.579.rx: 01 83 03 01 31
 16.595.tx: 01 03 A6 03 00 01 56 82

	Func	Reg	Num	Format	Prm Name	Setting Value	Read Value	CLEAR	Ex
1	<input checked="" type="checkbox"/> 3	272	1	uint	num of node		0		
2	<input type="checkbox"/> 3	273	2	uint	node id 1		0		
3	<input checked="" type="checkbox"/> 3	275	2	uint	node id 2		0		
4	<input checked="" type="checkbox"/> 16	277	2	uint	node id 3		0		
5	<input checked="" type="checkbox"/> 3	279	2	uint	node id 4		0		
6	<input checked="" type="checkbox"/> 3	281	2	uint	node id 5		0		

tx: 9684 rx: 9684
 ok: 9424
 crc: 260
 tmo: 0

Run Program 08-10_14:30 disconnected
 08-10_14:30 disconnected
 08-10_14:30 connected

Daviteq Modbus Configuration Tool Version 1.0

FILE EDIT

Port: COM6 BaudRate: 9600 Parity: none

Disconnect

Status: **connected** tx rx

36.158.tx: 01 03 00 1D 00 01 14 0C
 36.220.rx: 01 03 02 63 63 D0 9D
 36.222.tx: 01 03 00 1E 00 01 E4 0C
 36.284.rx: 01 03 02 63 63 D0 9D
 36.286.tx: 01 03 00 1E 00 01 E4 0C

	Func	Reg	Num	Format	Prm Name	Setting Value	Read Value	CLEAR	Ex
1	<input checked="" type="checkbox"/> 3	272	1	uint	num of node		0		
2	<input type="checkbox"/> 16	273	2	uint	node id 1		0		
3	<input checked="" type="checkbox"/> 3	275	2	uint	node id 2		0		
4	<input checked="" type="checkbox"/> 3	277	2	uint	node id 3		0		
5	<input checked="" type="checkbox"/> 3	279	2	uint	node id 4		0		
6	<input checked="" type="checkbox"/> 3	281	2	uint	node id 5		0		

tx: 10623 rx: 10622
 ok: 10339
 crc: 283
 tmo: 0

Run Program 08-10_14:30 disconnected
 08-10_14:30 disconnected
 08-10_14:30 connected

Step 2: Type in **Setting Value** the **Node id 1**, then check the Func 16 box.

Daviteq Modbus Configuration Tool Version 1.0

FILE EDIT

Port: COM6 BaudRate: 9600 Parity: none

Disconnect

Status: **connected** tx rx

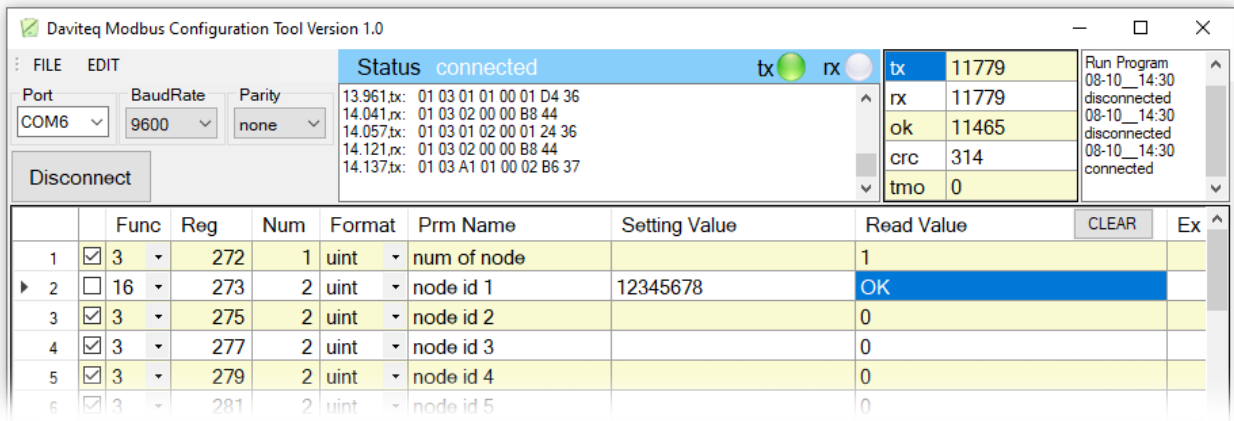
55.957.tx: 01 03 00 44 00 01 C4 1F
 56.034.rx: 01 03 02 00 00 B8 44
 56.050.tx: 01 03 00 45 00 01 95 DF
 56.114.rx: 01 03 02 00 00 B8 44
 56.122.tx: 01 03 00 45 00 01 95 DF

	Func	Reg	Num	Format	Prm Name	Setting Value	Read Value	CLEAR	Ex
1	<input checked="" type="checkbox"/> 3	272	1	uint	num of node				crc
2	<input checked="" type="checkbox"/> 16	273	2	uint	node id 1	12345678	0		
3	<input checked="" type="checkbox"/> 3	275	2	uint	node id 2		0		
4	<input checked="" type="checkbox"/> 3	277	2	uint	node id 3		0		
5	<input checked="" type="checkbox"/> 3	279	2	uint	node id 4		0		
6	<input checked="" type="checkbox"/> 3	281	2	uint	node id 5		0		

tx: 11565 rx: 11565
 ok: 11258
 crc: 307
 tmo: 0

Run Program 08-10_14:30 disconnected
 08-10_14:30 disconnected
 08-10_14:30 connected

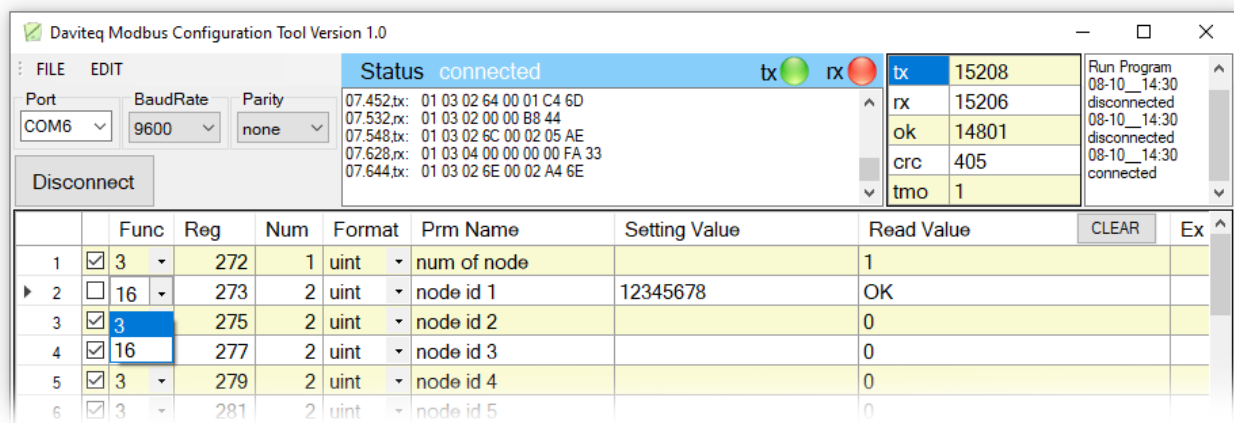
if **Read Value** show **OK** which mean it's wrote successful.



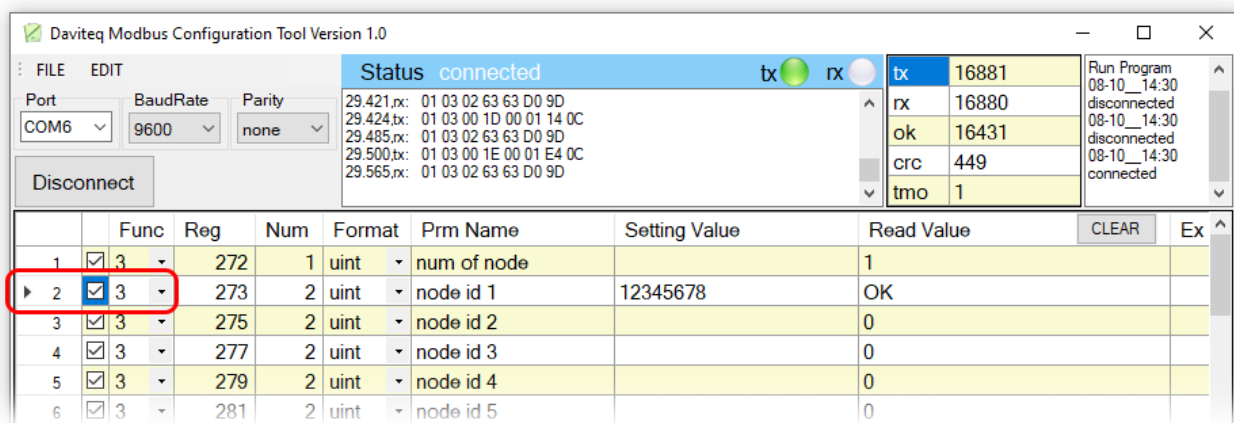
2.1 Read Value from Modbus Device with Function 3

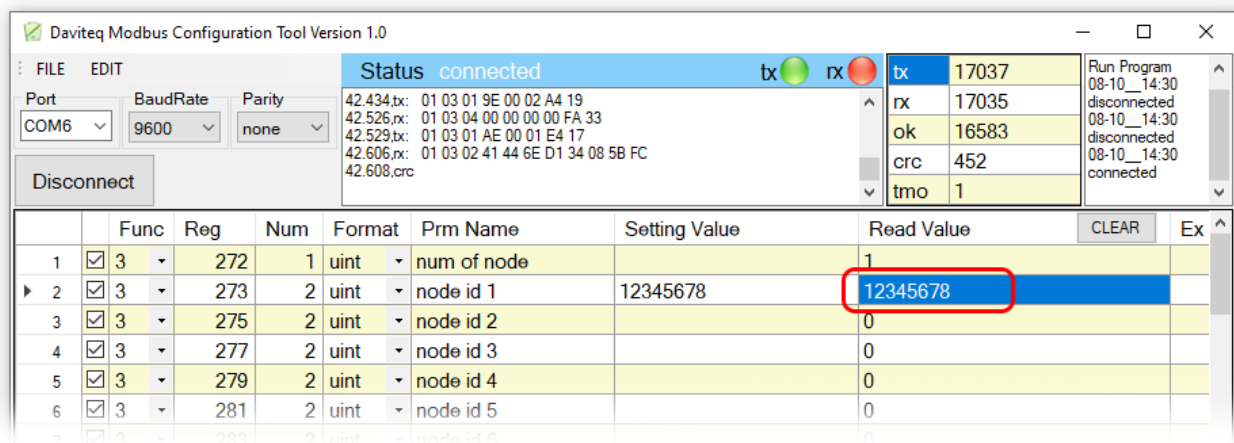
After writing the value, we will check the value entered with Func 3. **Func 3** is used to read holding registers.

Step 1: Click on the arrow and change Func from **16** to **3**.



Step 2: Check the box of Func 3. If it shows that the value in **Read Value** is the same as the value entered, it means that the data entered was successful.





3. Troubleshooting

No.	Phenomena	Reason	Solutions
1	Cannot connect to software	<ul style="list-style-type: none"> The COM port selected is incorrect. Modbus cannot be connected to the device. 	<ul style="list-style-type: none"> Check Modbus connection Select the correct COM port to which the configuration cable connects to the computer
2	COM port does not appear in the select list	<ul style="list-style-type: none"> Have not updated window to the latest version Driver not installed 	<ul style="list-style-type: none"> Update to the latest version for window Install driver for PC
3	Cannot see any register on software	The template file has not been imported	Go to File/Import New to import the template file
4	See registers that do not match the memmap table of the device rs485 or sensor is configuring	The template file imported incorrectly	Go to the correct manual page of the product configuring and download the template file, then import the template file into the software

4. Support contacts



Manufacturer

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🔄 Revision #11

★ Created Mon, Oct 5, 2020 2:01 AM by **Kiệt Anh Nguyễn**

✍ Updated Sun, Dec 26, 2021 9:16 PM by **Kiệt Anh Nguyễn**