

Set active power in Smartlogger via Modbus -demo with Modbus Poll



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| Version | Created by | Date | Remarks |
|---------|------------|------------|---------|
| 01 | a84093577 | 10.04.2019 | Modbus |

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1. Setup the Smartlogger

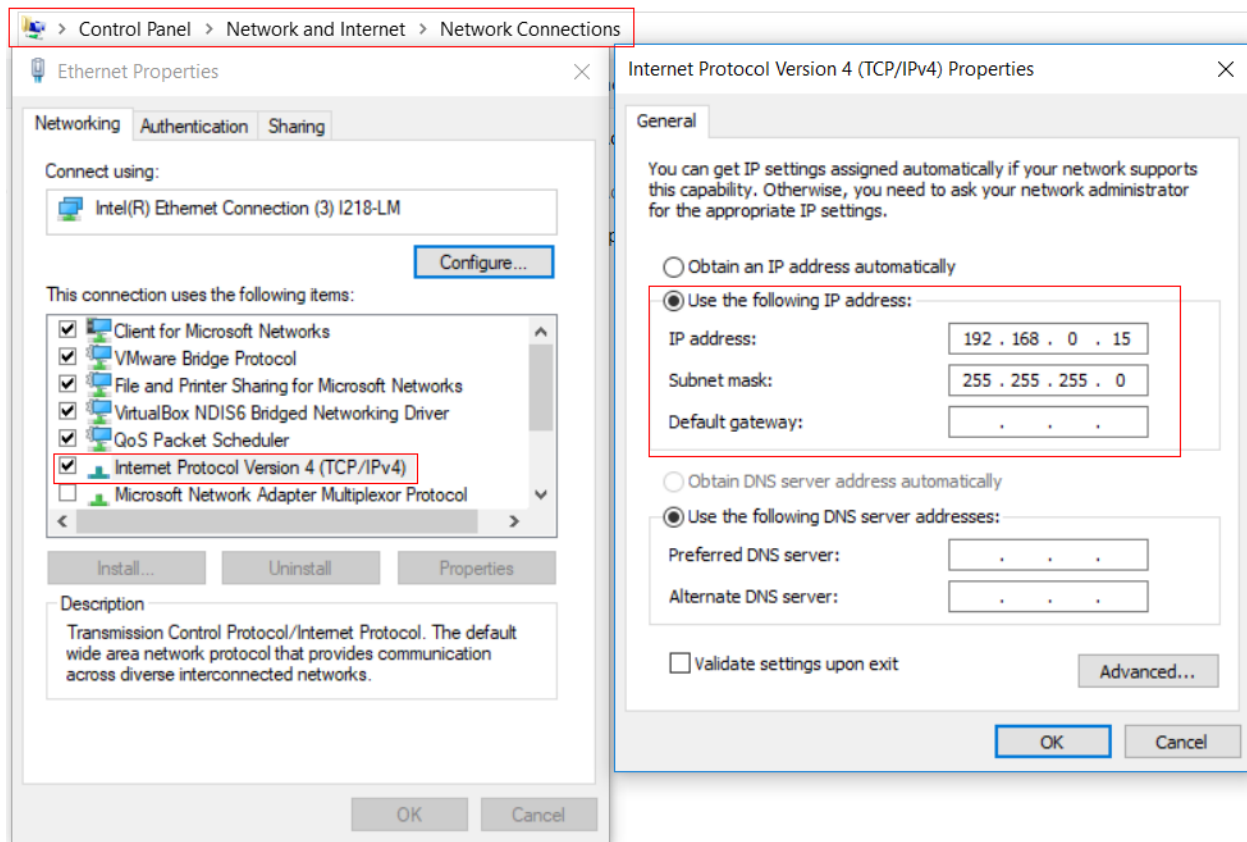
1.1 Connect to the Smartlogger1000&2000 WebUI

1.1.1 Set local IP address in the same range as the Smartlogger IP

Go to: Control Panel→ Network and Internet→ Network Connections

Right on Ethernet connection→ Properties

Go to Internet Protocol Version 4 (TCP/IPv4) and set the following parameters



1.1.2 Connect to the Smartlogger1000&2000 WebUI: <https://192.168.0.10>

1.2 Log in as Advanced User (default password: Changeme)

LanguageEnglish

User NameAdvanced User

Password

Log In

Reset

1.3 Go to Settings > Modbus TCP

Link setting > Enable (Limited)

Client 1 IP Address > The IP address of the device that will access the interface

Address mode > Logical address

Smartlogger address → any address between 0-247. **Make sure that there is no conflict with other devices.**

Check in Maintenance > Device List what logical addresses the other devices have.

| Modbus TCP | |
|---------------------|-----------------|
| Link setting | Enable(Limited) |
| Client 1 IP Address | 192.168.0.15 |
| Client 2 IP Address | 0.0.0.0 |
| Client 3 IP Address | 0.0.0.0 |
| Client 4 IP Address | 0.0.0.0 |
| Client 5 IP Address | 0.0.0.0 |
| Address mode | Logical address |
| SmartLogger address | 100 (0-247) |

2. Setup Modbus Poll

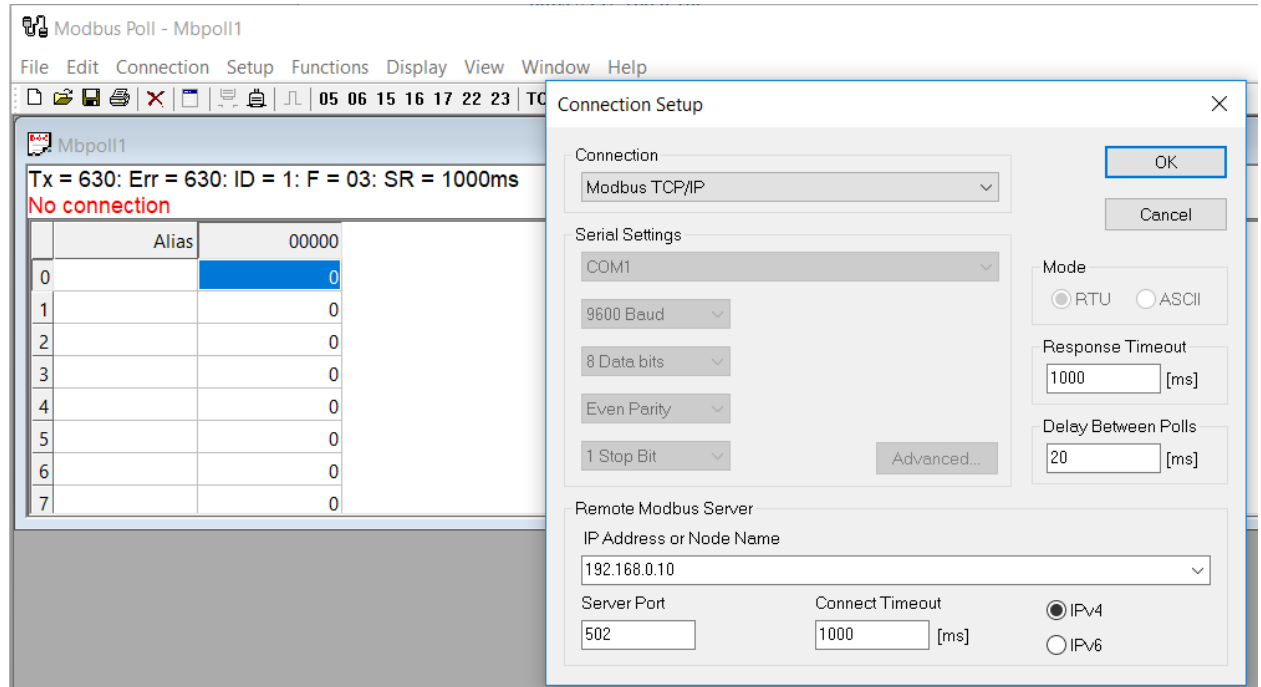
2.1 Download the app: <https://www.modbustools.com/download.html>

2.2 Go to Connection > Connect

Set:

- Connection: Modbus TCP/IP
- IP address (Smartlogger1000&2000 local IP address)

- Server Port: 502
- Press OK

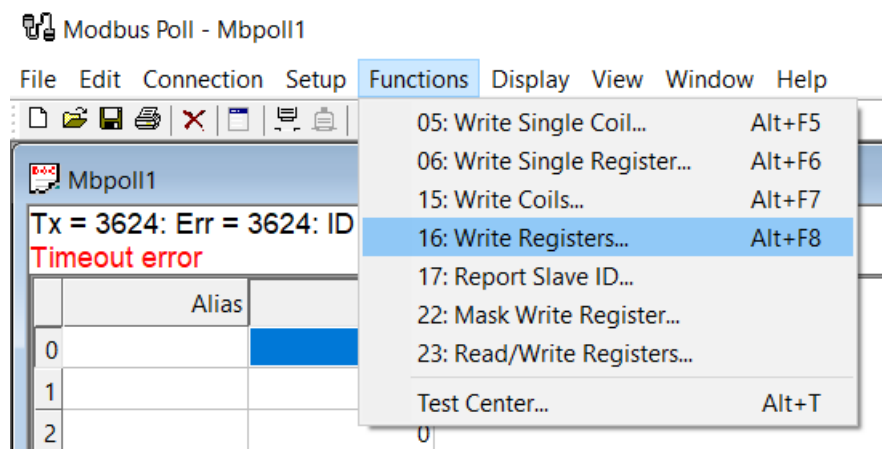


3. Set desired power limitation

Refer to document “SmartLogger ModBus Interface Definitions_Issue” for all addresses”

3.1 Active power limitation 40420

Go to **Functions**→ **16: Write Registers**



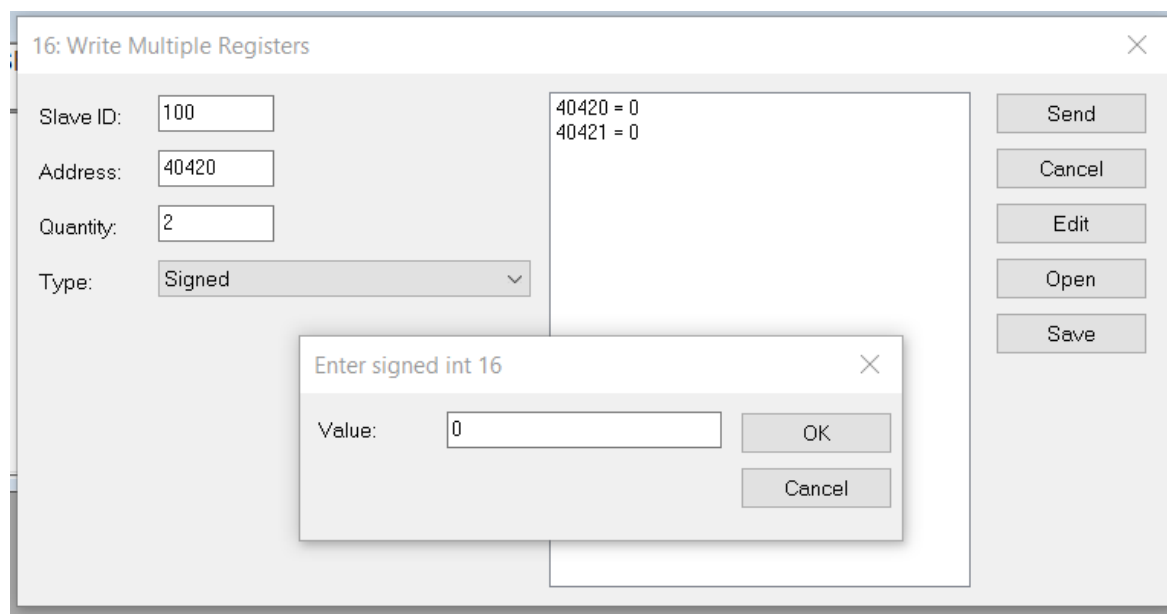
Set the following parameters:

Slave ID: Smartlogger1000&2000 logical address

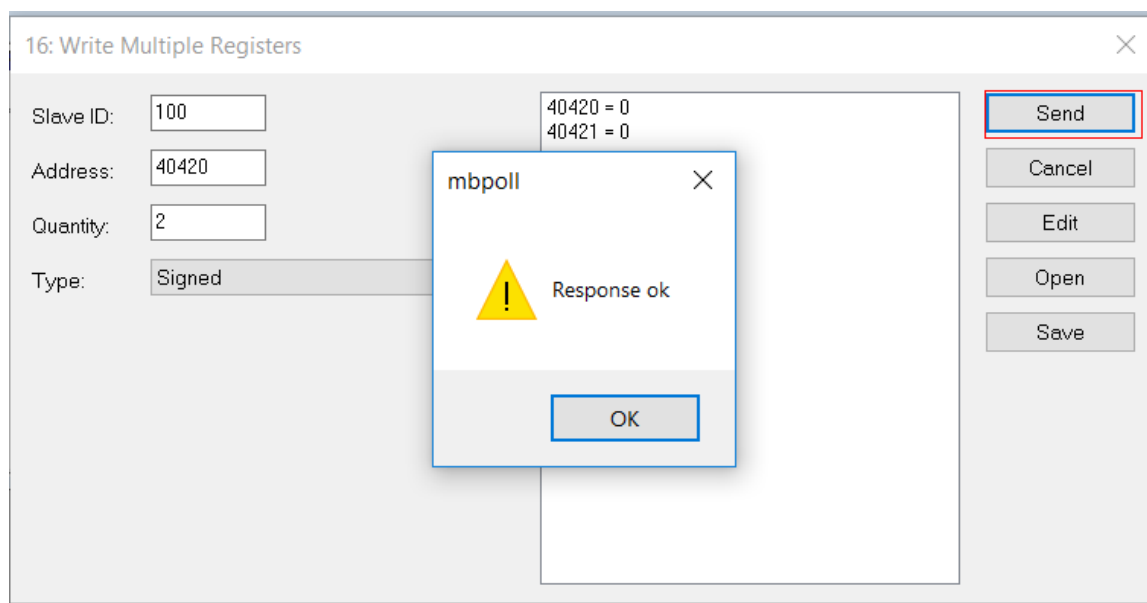
Address: Modbus address for the desired limitation

Quantity: 2

Tap on Edit and enter the desired value

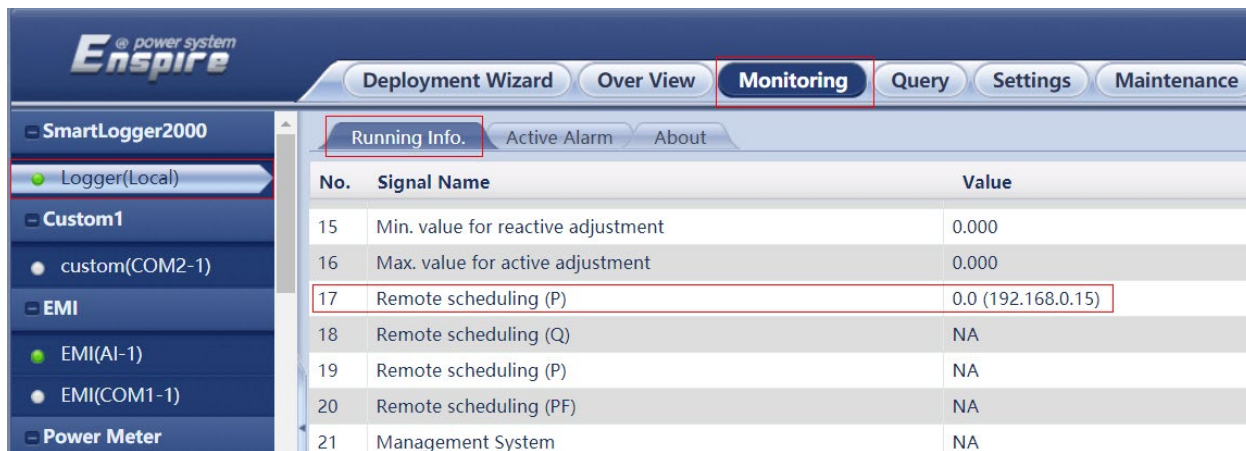


Press Send:



Check the result:

Go to Monitoring → Logger → Running Info



| No. | Signal Name | Value |
|-----|------------------------------------|--------------------|
| 15 | Min. value for reactive adjustment | 0.000 |
| 16 | Max. value for active adjustment | 0.000 |
| 17 | Remote scheduling (P) | 0.0 (192.168.0.15) |
| 18 | Remote scheduling (Q) | NA |
| 19 | Remote scheduling (P) | NA |
| 20 | Remote scheduling (PF) | NA |
| 21 | Management System | NA |