Landis+Gyr ZMD4xx with CU-XE - Commissioning

This brief installation instruction provides a quick overview of all the necessary steps. Additional information, safety instructions, references, and sources can be found in our HelpCenter. The Installation instructions are only valid for the integration of the energy management system and the configuration of relevant assets. Make sure to carefully read the **safety instructions** and adhere to the **infrastructural requirements for a gridBox gateway installation**.

Required:

- Admin credentials for the management UI
- Scaling factors to configure voltage and current ratios of the used voltage and current transformers.
- Latest firmware

Configuration

The meter and the communication module must be configured by a certified metering operator.

IMPORTANT

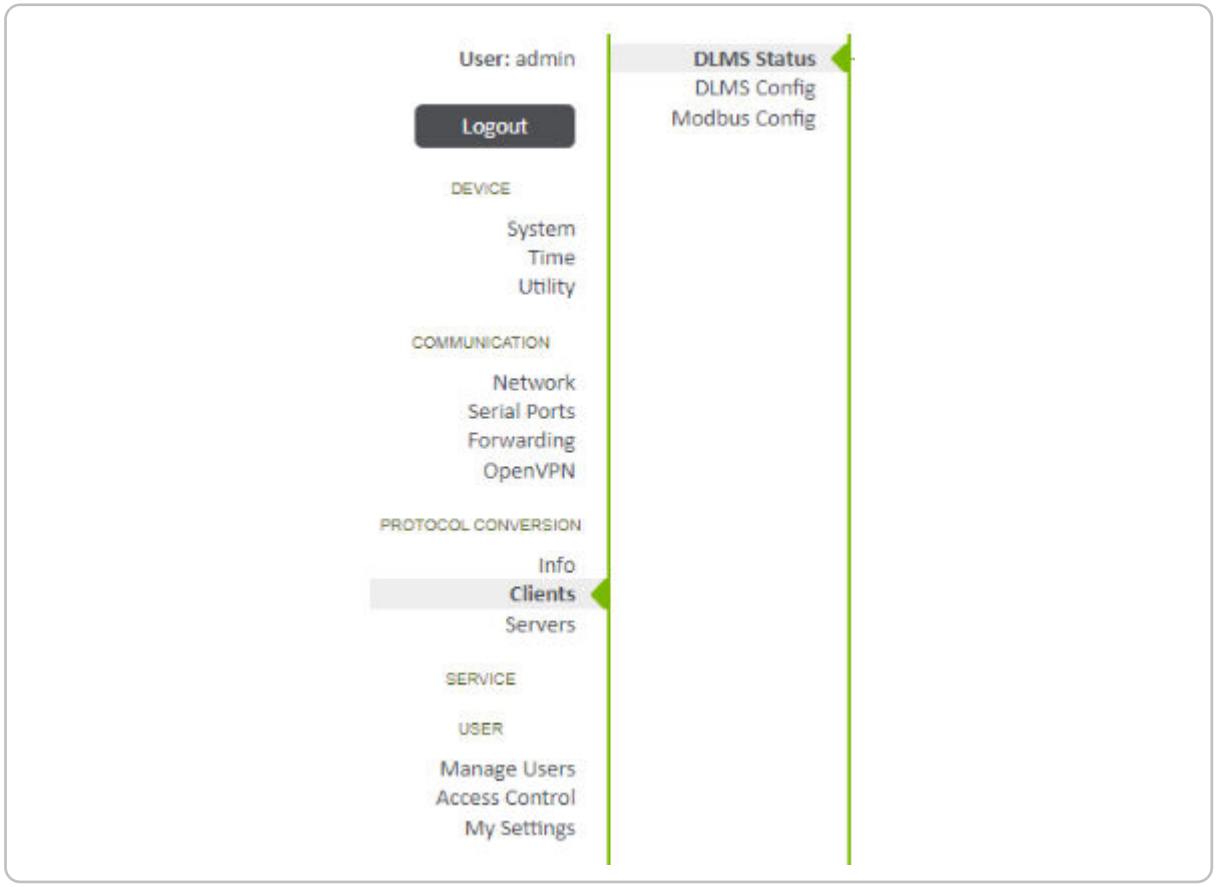
While the laptop is connected to the CU-XE unit for administration via the UI, the meter does not provide updated meter values in reasonable time. For a correct operation of the meter, the laptop must be disconnected from the UC-XE unit.

NOTE

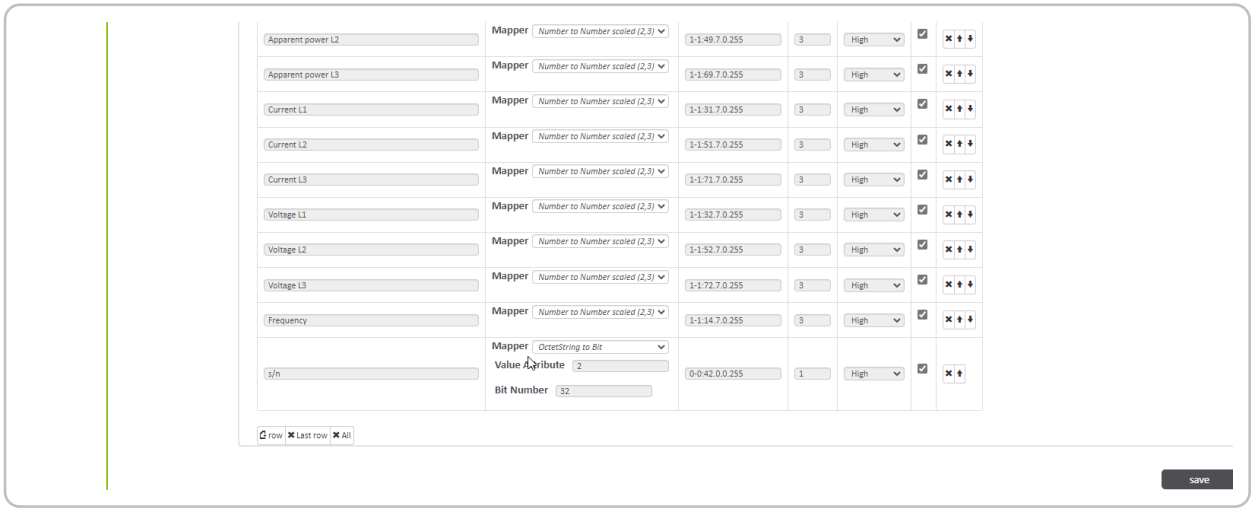
Scaling factors are required in order to configure voltage- and current ratios of the used voltage- and current transformers.

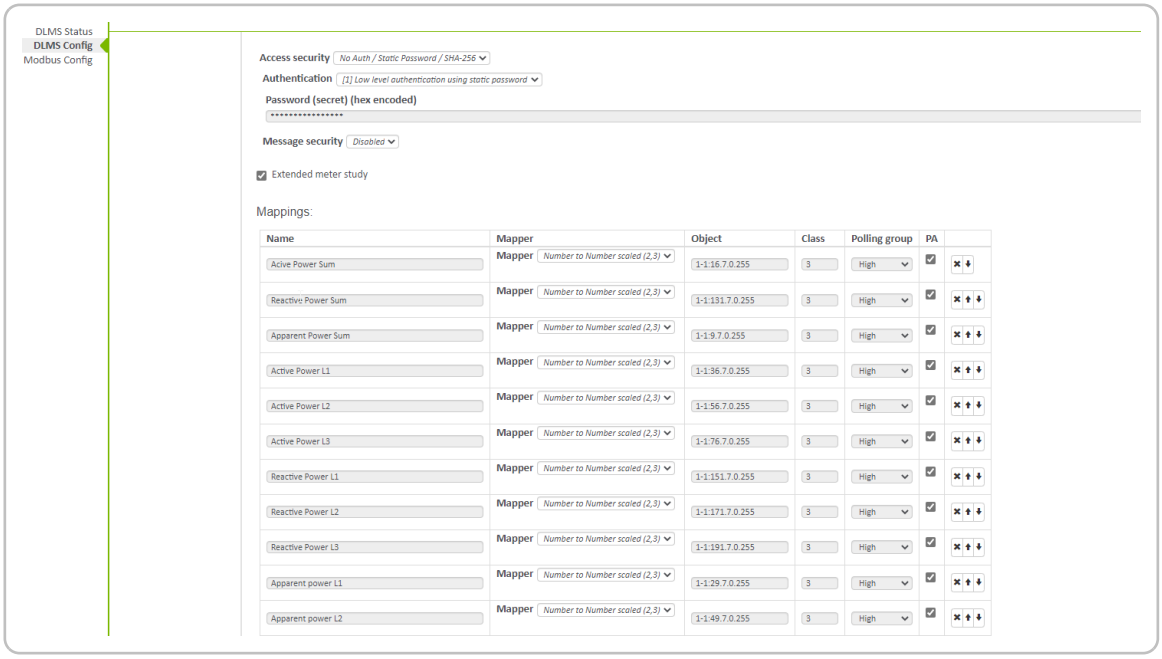
During this configuration, these steps are required:

1. Connect a laptop to the management Ethernet port and logon as Admin to the management UI.
2. Configure the IP address, subnet mask (CIDR notation) and default gateway.
3. Make sure that the Modbus TCP port is set to **1502** and byte order is selected as **CDAB**.
4. Under section **Protocol conversion** edit the **Clients** configuration as shown below:

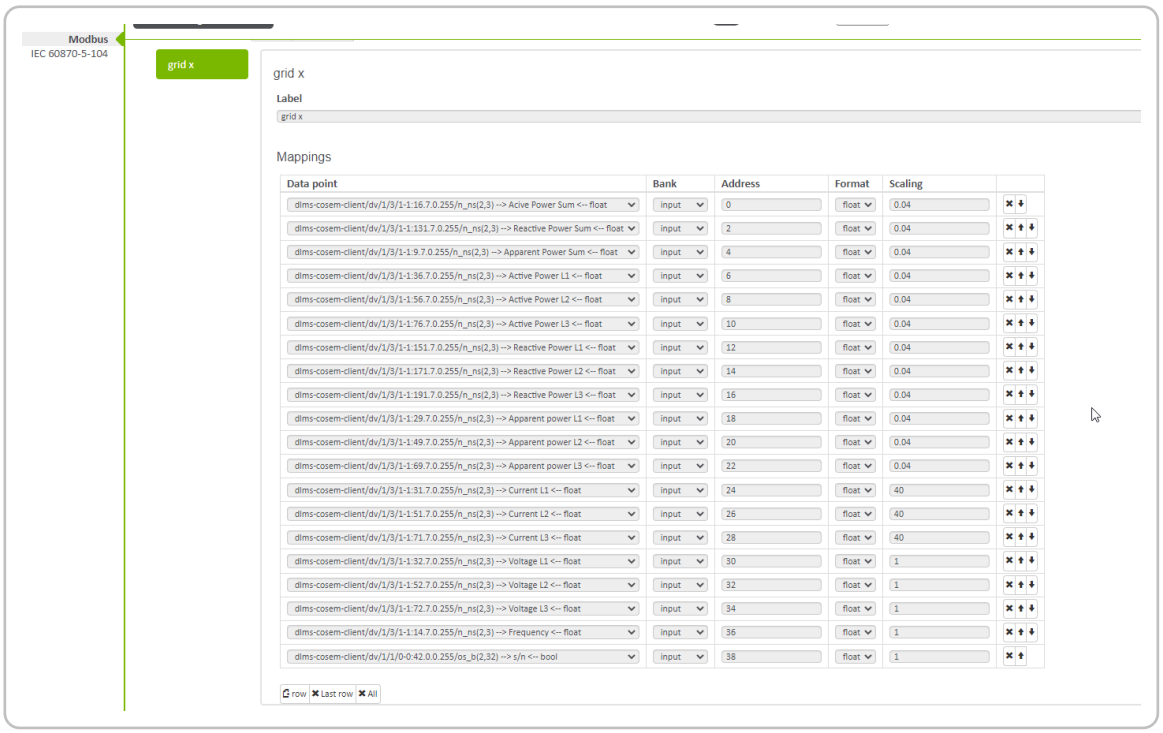


a. **DLMS Config** - this represents the mapping of OBIS Codes to field names.





b. Modbus Config - this represents the mapping of field names to Modbus register numbers.


Modbus
IEC 60870-5-104
grid x
grid x
Label
grid x
Mappings
Data point
Bank
Address
Format
Scaling
dlms-cosem-client/dv/1/3/1-1:16.7.0.255/n_ns(2,3) --> Acive Power Sum <-- float
input
0
float
0.04
dlms-cosem-client/dv/1/3/1-1:131.7.0.255/n_ns(2,3) --> Reactive Power Sum <-- float
input
2
float
0.04
dlms-cosem-client/dv/1/3/1-1:9.7.0.255/n_ns(2,3) --> Apparent Power Sum <-- float
input
4
float
0.04
dlms-cosem-client/dv/1/3/1-1:36.7.0.255/n_ns(2,3) --> Active Power L1 <-- float
input
6
float
0.04
dlms-cosem-client/dv/1/3/1-1:56.7.0.255/n_ns(2,3) --> Active Power L2 <-- float
input
8
float
0.04
dlms-cosem-client/dv/1/3/1-1:76.7.0.255/n_ns(2,3) --> Active Power L3 <-- float
input
10
float
0.04
dlms-cosem-client/dv/1/3/1-1:151.7.0.255/n_ns(2,3) --> Reactive Power L1 <-- float
input
12
float
0.04
dlms-cosem-client/dv/1/3/1-1:171.7.0.255/n_ns(2,3) --> Reactive Power L2 <-- float
input
14
float
0.04
dlms-cosem-client/dv/1/3/1-1:191.7.0.255/n_ns(2,3) --> Reactive Power L3 <-- float
input
16
float
0.04
dlms-cosem-client/dv/1/3/1-1:29.7.0.255/n_ns(2,3) --> Apparent power L1 <-- float
input
18
float
0.04
dlms-cosem-client/dv/1/3/1-1:49.7.0.255/n_ns(2,3) --> Apparent power L2 <-- float
input
20
float
0.04
dlms-cosem-client/dv/1/3/1-1:69.7.0.255/n_ns(2,3) --> Apparent power L3 <-- float
input
22
float
0.04
dlms-cosem-client/dv/1/3/1-1:31.7.0.255/n_ns(2,3) --> Current L1 <-- float
input
24
float
40
dlms-cosem-client/dv/1/3/1-1:51.7.0.255/n_ns(2,3) --> Current L2 <-- float
input
26
float
40
dlms-cosem-client/dv/1/3/1-1:71.7.0.255/n_ns(2,3) --> Current L3 <-- float
input
28
float
40
dlms-cosem-client/dv/1/3/1-1:32.7.0.255/n_ns(2,3) --> Voltage L1 <-- float
input
30
float
1
dlms-cosem-client/dv/1/3/1-1:52.7.0.255/n_ns(2,3) --> Voltage L2 <-- float
input
32
float
1
dlms-cosem-client/dv/1/3/1-1:72.7.0.255/n_ns(2,3) --> Voltage L3 <-- float
input
34
float
1
dlms-cosem-client/dv/1/3/1-1:14.7.0.255/n_ns(2,3) --> Frequency <-- float
input
36
float
1
dlms-cosem-client/dv/1/1/0-0:42.0.0.255/os_b(2,32) --> s/n <-- bool
input
38
float
1
row
Last row
All