

# Modbus mapping

## How to install and configure Modbus in CMe3100

### MODBUS

The Modbus add-on allows you to get a clear overview of how to install and configure for Modbus holding register.

### INSTALL MODBUS

Log in to the internal web interface of CMe3100 by typing the product's IP-address in the address field of a browser.

In the main menu, go to the tab **Device** and then click on **Licenses & Add-ons**

The screenshot displays the Elvaco web interface. At the top left is the 'elvaco' logo. On the top right, there are links for 'MY ACCOUNT' and 'SIGN OUT', along with the hostname 'CMe3100-0016000585'. The main navigation bar includes 'Dashboards -', 'Measurement series', 'Meters', 'Configuration -', 'Device -', and 'Support links -'. The 'Device -' menu is open, showing options: 'System log', 'Manage configurations', 'Firmware update', 'Licenses & Add-ons', 'Translations', and 'About'. The 'Licenses & Add-ons' option is circled in red. Below the navigation bar, the 'Installation panel' is visible, featuring a 'Basic setup' section with a table of installation steps and their status.

Installation overview	Status
Network settings	✓
Internet access	✓
Date & Time	⌚
Meters	✓



Click on **Add-ons** to handle your Plugins.

**elvaco** MY ACCOUNT SIGN OUT  
Hostname: CMe3100-0016000585

Dashboards - Measurement series Meters Configuration - **Device -** Support links - Svenska

## Licenses & add-ons

License **Add-ons**

[Upload new license file](#)

Current license(s)

Licenses	
Company	
Issued	2015-11-26
Subscription end date	2017-12-25
Valid through	Unlimited
Name	Description
CMe3100 Core	CMe3100 License for up to 256 devices
CMe3100 JSON-RPC Plugin	CMe3100 License for JSON-RPC plugin
CMe3100 ModBus Plugin	CMe3100 License for ModBus plugin
CMe3100 REST Plugin	CMe3100 License for REST plugin



Click on **Install now** to install Modbus. When Modbus is installed, the add-on will start.

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Hostname: CMe3100-0016000585

Dashboards - Measurement series Meters Configuration - **Device -** Support links - Svenska

### Licenses & add-ons

Licenses Add-ons

Install new add-on from file

Showing 1 to 3 of 3 entries

Name	Version	Date	Type	Installed	Started	Licensed	Delete
Elvaco-Rest	1.4.2	2016-04-07	war	No (Install now)	No	Yes	
Elvaco-Modbus	1.4.2	2016-04-07	service	No (Install now)	No	Yes	
Elvaco-JSON-RPC	1.4.2	2016-04-07	war	No (Install now)	No	Yes	

Showing 1 to 3 of 3 entries



Go back to **Dashboards** and choose **System Panel** and verify that Modbus add-on is enabled.

**elvaco** MY ACCOUNT SIGN OUT  
Hostname: CMe3100-0016000585

Dashboards - Measurement series Meters Configuration - Device - Support links - Svenska

### System panel

#### Device information

System	Value
Serial number	0016000585
Product type	CMe3100
Hardware version	R1D
Software version	1.4.2
MAC address	00:D0:93:35:9B:37
IP address	192.168.1.125
Hostname	CMe3100-0016000585
Device time	2016-04-19 07:29:31
Device started	2016-04-19 07:16:51

#### Meters

Meter	Value
Total meters	5
Active meters	5
Passive meters	0
Readout schedule	Every 5th minute (* / 5 * * * *)

#### Scheduled Reports

Scheduled reports	Enabled
Report 1 sending ftp report 2101 to ftp.elvaco.se	<input checked="" type="checkbox"/>
Report 2 sending disabled report -1 to unknown	<input checked="" type="checkbox"/>
Report 3 Report is disabled	<input type="checkbox"/>
Report 4 Report is disabled	<input type="checkbox"/>
Report 5 Report is disabled	<input type="checkbox"/>

#### Services

Service	Enabled
Web server (Administration GUI) Web server is enabled on TCP/IP port 80	<input checked="" type="checkbox"/>
Console (Command line user interface) Console is enabled on TCP/IP port 9999	<input checked="" type="checkbox"/>
Transparent M-Bus over TCP/IP 1 Service is disabled	<input type="checkbox"/>
Transparent M-Bus over TCP/IP 2 Service is disabled	<input type="checkbox"/>
Virtual M-Bus over TCP/IP Service is disabled	<input type="checkbox"/>
M-Bus slave port 1 Service is disabled	<input type="checkbox"/>
M-Bus slave port 2 Service is disabled	<input type="checkbox"/>
<b>Modbus</b> Service is running on port 502	<input checked="" type="checkbox"/>



## CONFIGURE MODBUS

Go to **Measurement series** and then click on **Modbus Map**.

The screenshot shows the Elvaco web interface. At the top, the Elvaco logo is on the left, and 'MY ACCOUNT SIGN OUT' and 'Hostname: CMe3100-0016000585' are on the right. Below the header is a navigation bar with 'Dashboards -', 'Measurement series' (circled in red), 'Meters', 'Configuration -', 'Device -', 'Support links -', and a Swedish flag with 'Svenska'. Below this is a sub-navigation bar with 'Measurement series', 'Object types', 'Templates', 'API Identification', and 'Modbus Map' (circled in red). The main content area shows 'Add New' and 'New Folder' buttons, followed by the device ID 'CMe3100-0016000585'. There are 'List' and 'Report' buttons, and view options for 'Hierarchical view' (selected) and 'Flat view'. A dropdown menu shows '- Choose a function -' and an 'Execute' button. A search bar is labeled 'Search \*'. Below this, it says 'Showing 1 to 5 of 5 entries' with pagination buttons 'First', 'Previous', '1', 'Next', 'Last'. A table lists five folders: 'All devices', 'dBm', '°C', '%', and 'Minute(s)', each with columns for 'Name\*', 'Information', 'Source\*', 'Updated', and 'Options'. At the bottom, it says 'Showing 1 to 5 of 5 entries' with another set of pagination buttons.



Activate preferred value to read with Modbus. When value is enabled, the CMe3100 will create the register address automatically. To change Data type, click on the pencil to the right in the Options column.

elvaco
MY ACCOUNT SIGN OUT  
Hostname: CMe3100-0016000585

Dashboards -
Measurement series
Meters
Configuration -
Device -
Support links -
Svenska

Measurement series
Object types
Templates
API Identification
Modbus Map

- Choose an operation -
Execute

Show all
Search
🔍
↻

Showing 1 to 21 of 21 entries First Previous 1 Next Last

	Name*	Enabled	Source*	Data type	Holding register	Value	Options
<input type="checkbox"/>	1st floor - Minute(s)	<input type="checkbox"/>	M-Bus: 61003491	Two byte unsigned integer	N/A	2,000	
<input type="checkbox"/>	1st floor - Relative hum...	<input type="checkbox"/>	M-Bus: 61003491	Two byte unsigned integer	N/A	41,7	
<input type="checkbox"/>	1st floor - Signal stren...	<input type="checkbox"/>	M-Bus: 61003491	Two byte unsigned integer	N/A	-66,000	
<input type="checkbox"/>	1st floor - Temperature	<input checked="" type="checkbox"/>	M-Bus: 61003491	Two byte unsigned integer	40001	19,58	
<input type="checkbox"/>	2nd floor - Minute(s)	<input type="checkbox"/>	M-Bus: 63003801	Two byte unsigned integer	N/A	3,000	
<input type="checkbox"/>	2nd floor - Relative hu...	<input type="checkbox"/>	M-Bus: 63003801	Two byte unsigned integer	N/A	39,2	
<input type="checkbox"/>	2nd floor - Signal stren...	<input type="checkbox"/>	M-Bus: 63003801	Two byte unsigned integer	N/A	-66,000	
<input type="checkbox"/>	2nd floor - Temperature	<input checked="" type="checkbox"/>	M-Bus: 63003801	Two byte unsigned integer	40005	20,30	
<input type="checkbox"/>	Basement - Minute(s)	<input type="checkbox"/>	M-Bus: 61002076	Two byte unsigned integer	N/A	1,000	
<input type="checkbox"/>	Basement - Relative h...	<input type="checkbox"/>	M-Bus: 61002076	Two byte unsigned integer	N/A	38,5	



These are the standard settings for Modbus.

**elvaco** MY ACCOUNT SIGN OUT  
Hostname: CMe3100-0016000585

[Dashboards -](#) [Measurement series](#) [Meters](#) [Configuration -](#) **Device -** [Support links -](#) [Svenska](#)

## Services - Modbus

[Overview](#) [Settings](#) [End-user license agreement](#)

### Modbus settings

**Activate Modbus**

**TCP port number**  
  
Connection port for client.

**Simultaneous connections**  
  
Choose how many simultaneous connections that should be allowed.

**Respond on invalid address**  
Check to send a response even if a Modbus address is incorrect.

**Default data type**  
  
Choose what data type that should be default.

**Default constant**  
  
Factor that all returned values gets multiplied with to allow handling of decimal values using integers.

[Save](#)

