

# Measurement series

## How to create measurement series in CMe3100

### MEASUREMENT SERIES

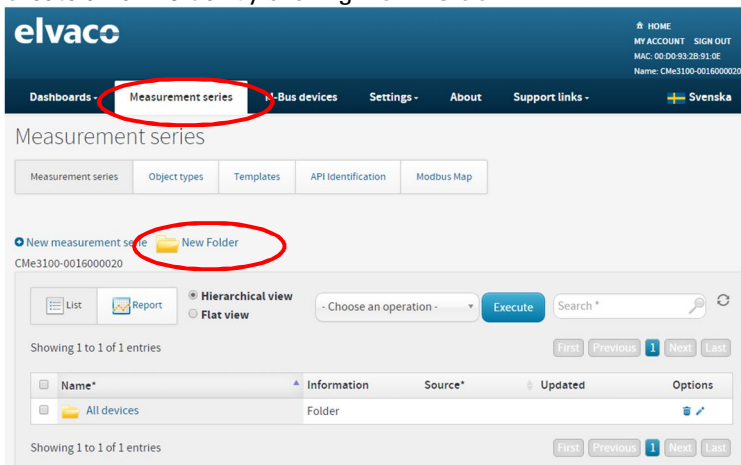
The function measurement series allows you to get a clear overview of, for example, the average temperature in a facility.

### CREATE A MEASUREMENT SERIES

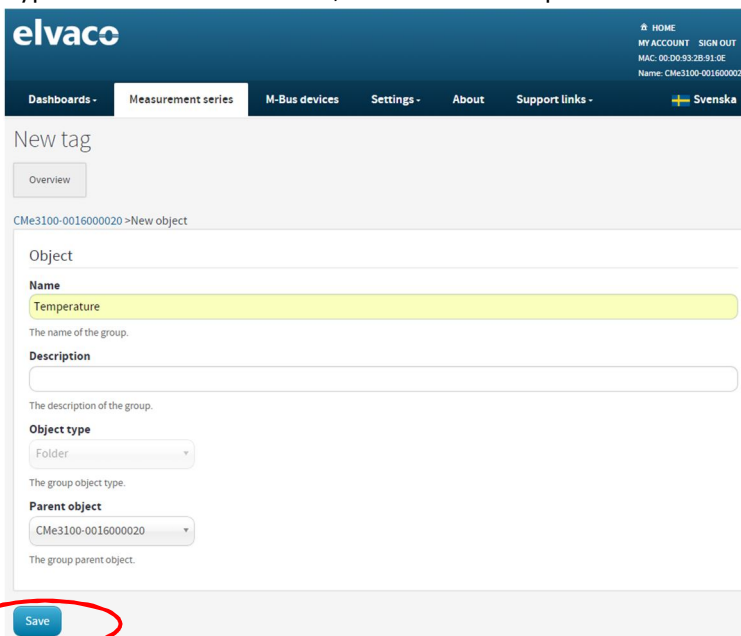
Log in to the internal web interface of CMe3100 by typing the product's ip-address in the address field of a browser.

In the main menu, go to the tab **Measurement series**

Create a new folder by clicking **New folder**



Type in a name for the folder, in this case "Temperature". Then click **Save**



Click **edit** (the pencil symbol) on the Temperature folder

The screenshot shows the Elvaco web interface. The top navigation bar includes 'Dashboards -', 'Measurement series' (active), 'M-Bus devices', 'Settings -', 'About', and 'Support links -'. The user is logged in as 'CMe3100-0016000020'. The 'Measurement series' section is active, showing a list of series. The 'Temperature' folder is selected, and the edit icon (pencil) is circled in red.

Name*	Information	Source*	Updated	Options
All devices	Folder			
Temperature	Folder			

Click on **Measurement series members**

The screenshot shows the Elvaco web interface. The 'Measurement series' section is active, showing the 'Temperature' tag. The 'Measurement serie members' tab is selected and circled in red.

Object

Name

Temperature

Description

Object type

Folder

Parent object

CMe3100-0016000020



Select the desired temperature meters by checking the box for each meter.  
A tip is to search for "temperature" in the search box to filter all meters.

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HOME  
MY ACCOUNT SIGN OUT  
MAC: 00:00:93:2B:91:0E  
Name: CM3100-0016000020

Dashboards - Measurement series M-Bus devices Settings - About Support links - Svenska

Tag: Temperature

Overview Measurement serie members

CM3100-0016000020 > Temperature

- Choose an operation - Execute Filter: Display all Tempe

Measurement series

Showing 1 to 10 of 26 entries

Name*	Source*	Description*	Member	Options
Return temperature	M-Bus: 22787367	Heat, Return temperature - 22787367	<input type="checkbox"/>	
Temperature	M-Bus: 61000134	Room sensor, Temperature - 61000134	<input type="checkbox"/>	
Temperature	M-Bus: 61000200	Room sensor, Temperature - 61000200	<input type="checkbox"/>	
Temperature	M-Bus: 61000359	Room sensor, Temperature - 61000359	<input type="checkbox"/>	
Temperature	M-Bus: 61000361	Room sensor, Temperature - 61000361	<input type="checkbox"/>	
Temperature	M-Bus: 61000423	Room sensor, Temperature - 61000423	<input type="checkbox"/>	
Temperature	M-Bus: 61001027	Room sensor, Temperature - 61001027	<input type="checkbox"/>	

Click on **Choose an operation** and **Tag selected**, and then click **Execute**  
The "member button" for your selected meters will now turn green   
Go back to the overview and click **Save**

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HOME  
MY ACCOUNT SIGN OUT  
MAC: 00:00:93:2B:91:0E  
Name: CM3100-0016000020

Dashboards - Measurement series M-Bus devices Settings - About Support links - Svenska

Tag: Temperature

Overview Measurement serie members

CM3100-0016000020 > Temperature

- Choose an operation - Execute Filter: Display all temperature

Measurement series

Showing 1 to 10 of 26 entries

Name*	Source*	Description*	Member	Options
Return temperature	M-Bus: 22787367	Heat, Return temperature - 22787367	<input type="checkbox"/>	
Temperature	M-Bus: 61000134	Room sensor, Temperature - 61000134	<input type="checkbox"/>	
Temperature	M-Bus: 61000200	Room sensor, Temperature - 61000200	<input type="checkbox"/>	
Temperature	M-Bus: 61000359	Room sensor, Temperature - 61000359	<input type="checkbox"/>	
Temperature	M-Bus: 61000361	Room sensor, Temperature - 61000361	<input type="checkbox"/>	
Temperature	M-Bus: 61000423	Room sensor, Temperature - 61000423	<input type="checkbox"/>	
Temperature	M-Bus: 61001027	Room sensor, Temperature - 61001027	<input type="checkbox"/>	
Temperature	M-Bus: 61001050	Room sensor, Temperature - 61001050	<input type="checkbox"/>	
Temperature	M-Bus: 61001060	Room sensor, Temperature - 61001060	<input type="checkbox"/>	

- Choose an operation -  
Delete selected record(s)  
Delete all records  
Export table as CSV  
Export table as Excel  
Tag selected  
Untag selected  
Tag all  
Untag all

Room sensor, Temperature - 68000004

Room sensor, Temperature - 68000076

Room sensor, Temperature - 68000084



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Click on **New measurement series**

The screenshot shows the Elvaco web interface. At the top, there's a navigation bar with 'Dashboards -', 'Measurement series' (active), 'M-Bus devices', 'Settings -', 'About', and 'Support links -'. On the right, user information is displayed: HOME, MY ACCOUNT, SIGN OUT, MAC: 00.D0.93.2B.91.0E, and Name: CMc3100-0016000020. Below the navigation bar, the 'Measurement series' section has tabs for 'Measurement series', 'Object types', 'Templates', 'API Identification', and 'Modbus Map'. The 'New measurement series' button is highlighted with a red circle. Below this, there's a table showing existing measurement series. The table has columns: Name\*, Information, Source\*, Updated, and Options. It lists two entries: 'All devices' (Folder) and 'Temperature' (Folder). Navigation controls like 'First', 'Previous', 'Next', and 'Last' are visible.

**Name** – your name for the measurement series

**Description** – description for your measurement series

**API Identification** – this has to be a unique name

**Device type** – in this example, room sensor

**Unit type** – the unit type of the measurement series

**Unit** – end value, in this case °C

**Priority** – the priority of the measurement series which will be created or updated from this template

The screenshot shows the 'New measurement series' form. It has a 'Settings' button at the top left. The form fields are: 'Name' (text input with 'Average Temperature'), 'Description' (text input with 'Average Temperature of floor 2'), 'API Identification' (text input with 'avg.temp.func'), 'Device type' (dropdown menu with 'Room sensor'), 'Unit Type' (dropdown menu with 'Temperature'), 'Unit' (dropdown menu with '°C'), and 'Priority' (text input with '1'). Each field has a small description below it. The form is titled 'CMe3100-0016000020 > New measurement series'.



**Source** – the source from where the measurement series will update its data, choose Measurement series function

**Constant** – if you want to multiple your source with any value

**Format** – how you want the format of the measurement string

**Function** – the function that will be used for the calculation

**Select tags** – source with containing measurement series, here a folder name is typed for example

**Select measurement series** – if you have two meters and know secondary address and haven't created a folder

**Use upper limit** – if a maximum value shall be used, everything above will be counted as not valid

**Use lower limit** – if a lower value shall be used, everything below will be counted as not valid

**Minimum valid measurement series** – the percentage of required valid measurement series that has to be reached in order for the calculation to be valid

Source

Source

Measurement series fun...

The source from where the measurement serie will update it's data.

Constant

1,0

The constant to use for the source. The value from the source will be multiplied with this value.

Format

Default

Edit Refresh

The format string of the measurement serie. The format is used when formatting the value.

Function

Average value

Select which function that will be used for the calculation.

Select tags

Temperature () x

Select groups with containing measurement series to be used in the calculation.

Select measurement series

Select Some Options

Select measurement series to be used in the calculation.

Use upper limit

Select if a maximum allowed value shall be used, everything above will be counted as not valid.

Use lower limit

Select if a minimum allowed value shall be used, everything below will be counted as not valid.

Minimum valid measurement series

50 %

The percentage of required valid measurement series that has to be reached in order for the calculation to be valid.

Select tags

Temperature () x

00233239 (00233239)

12170290 (12170290)

13005893 (13005893)

13360067 (13360067)

13360079 (13360079)

13360210 (13360210)

15030561 (15030561)

22787367 (22787367)

61000134 (61000134)

61000200 (61000200)



**Update interval** – how often the measurement series will update. Our recommendation is to set the interval for the first time to every minute to confirm that Measurement series work properly and then go back and adjust the update interval.

**Storage interval** – how often the measurement series will be stored in database for graph use.

**Expiry time** – if data cannot be updated from source within this time, the measurement series value will be marked as old/not available.

**Display error value** – display a custom numeric value if there is a problem with the value.

Click **Save**

Settings

**Update interval**

Every 15 minutes

The update schedule for the measurement serie.

**Storage interval**

Every 30 minutes

The storage schedule for the measurement serie.

**Expiry time**

0

If data cannot be updated from source within this time, the measurement serie value will be marked as old/not available.

**Display error value**

☐

Display a custom numeric value if there is a problem with the value.

Save

Click Refresh after a minute and if everything is correct, Temperature will be shown in the information field

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HOME MY ACCOUNT SIGN OUT  
MAC: 00:D0:93:2B:91:0E  
Name: CMe3100-0016000020

Dashboards - Measurement series M-Bus devices Settings - About Support links - Svenska

Measurement series

Measurement series Object types Templates API Identification Modbus Map

New measurement serie New Folder

CMe3100-0016000020

List Report Hierarchical view Flat view - Choose an operation - Execute Search \*

Showing 1 to 3 of 3 entries

Name*	Information	Source*	Updated	Options
All devices	Folder			
Temperature	Folder			
Average Temperature	22,318 °C	measurementseriefunc	2015-06-15 14:45:00	

Showing 1 to 3 of 3 entries

