

First of all make sure to check out the follow points:

1. Energy meter must be connected to the same network as the battery gateway (Sitemanager)
2. Make sure the selector on the bottom right corner of the energy meter is not in lock mode when adjusting the settings below. Leave it in non lock mode 1. See picture below.
3. The energy meter IP adresse must be in the same IP range as the battery gateway in order for the gateway and the underlying battery controller can communicate with the energy meters
 - a. Ex. If battery gateway have IP adresse 10.9.192.227 then energy meter must be assigned IP: adresse in the range 10.9.192.XXX
4. The energy meter IP adresse can be assigned as DHCP or static. But if DHCP and in case of a power outage, it must be insured that energy meter is assigned the same IP adresse as assigned originally, because that's the IP adresse the battery controller is communicating with for energy readings.
5. If current transformers are used type 300/5A as specified in the installations specification document then adhusht cT ratio to 60.









Types of energy meters.

1. Carlo Gavazzi Type no. [M24DINAV53XE1X](#)
2. Siemens Type no. 7KM2200-2EA30-1EA1.

Setup of Carlo Gavazzi EM24 E1 energy meter. Type no. [M24DINAV53XE1X](#)

Setting a parameter

Example procedure: how to set **Ct rAtio**=20 and save changes.

Step	Action	Button
1	Power on the energy analyzer	
2	Press the joystick for at least 3 seconds	
3	In the PASS? page, select the correct password (default 0)	
4	Confirm operation	
5	Scroll pages until Ct rAtio	
6	Enter the editing mode	
7	Select 20	
8	Confirm operation	
9	Scroll pages until End to exit	

Information Menu

Page	Page title	Information displayed	
1	IP o.o.-.-	IP address (first part)	Set the IP adresse delivered by the network administrator
2	IP -.o.o	IP address (second part)	
3	Sub o.o.-.-	Subnet mask (first part)	255.255.255.0
4	Sub -.o.o	Subnet mask (second part)	
5	Gateo.o.-.-	Default gateway (first part)	Same as IP but one in the end ex. xxx.xxx.xxx.1
6	Gate-.o.o	Default gateway (second part)	
7	Port	Modbus TCP port	502
8	DHCP	DHCP enabling	
9	Info	Ethernet diagnostic	
10	Ut ratio	VT/PT ratio	
11	CT ratio	CT ratio	60
12	1P/2P/3P/3Pn (2-3-4-wire) dmd (time)	System Connection (2-3-4-wire) Dmd integration time (min.)	
13	Pulse	LED pulse weight (Number of kWh/kvarh per pulse)	
14	Year	Firmware release Year of production	

Setup of Siemens energy meter type no. 7KM2200-2EA30-1EA1

Follow the instructions in the Siemens user manual see link below

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/7KM2200-2EA30-1EA1>

EM24

Energy analyzer for three-phase systems



Selector must not be in lock mode when adjusting above settings