CLEMAP Grid

The CLEMAP Grid is the ideal low-voltage, high-current measuring device that you need for your energy measurement in the Smart Grid. It consists of a sensor and three Rogowski coils. Our smart energy measuring device records, encrypts and transmits the measured data to the CLEMAP web servers.
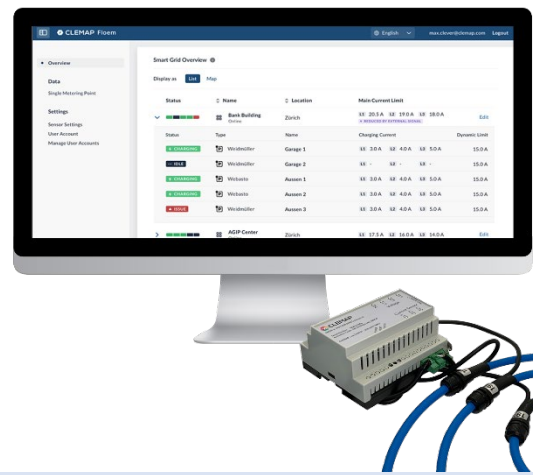
Thanks to the Rogowski coils, the measuring device can be installed quickly and without power interruption. In addition, the DIN rails make the installation even easier.

The non-invasive measurement of the electrical currents allows the consumption to be determined. The coils take measurements of up to 6000 amperes. The grid measures the three phases simultaneously and can carry out detailed energy analyses by extending algorithms. In this way, the CLEMAP grid informs you about important parameters of the electrical network such as active power, reactive power, peak power and applicationbof specific data.
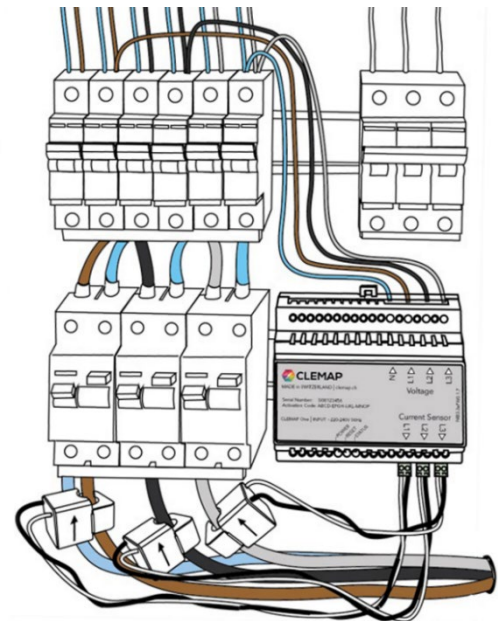
Via the integrated Wi-Fi receiver, LAN connection or an external 3G modem, the device connects to the Internet, which is required for data transfer to our web servers. As soon as the connection is established, the data transfer runs in real time, giving you instant insight into the measured data. The visualisation of the data is done via our energy portal CLEMAP Floem.

The measurement enables you to monitor critical infrastructure in your plants. Thanks to flexible high-resolution energy analyses, you can add modules for power quality measurement and preventive maintenance.

For further information, visit:
www.clemap.ch/en/solutions/energy-meters/grid

- Embedding in digital processes
- Real-time information on electricity consumption
- Measuring up to three lines
- Access to CLEMAP Floem
- Wireless communication
- Information on daily / monthly / annual costs

Nominal voltage: 230 V / 400 V	Warranty: 24 months
Maximum current per phase (A): 1000, 2000, 6000	Dimensions: 105x86x59 mm
Rated frequency: 50 Hz	DIN Rail Montage
Power consumption: < 3 W	CE-certified
Voltage interface: L1, L2, L3	Data Interface: SDAT/EBIX, REST API, MQTT
Positive and negative energy flows	Wireless 802.11b/g/n, Ethernet, 3G*
Real-time data with a resolution of • Active and reactive power: 1 W, 1 VA • Active and reactive energy: 1 Wh, 1 VAh • Readout interval: 1 second	Security • Wireless: WPA2 • Encrypted communication: TLS/SSL * with external 3G modem