



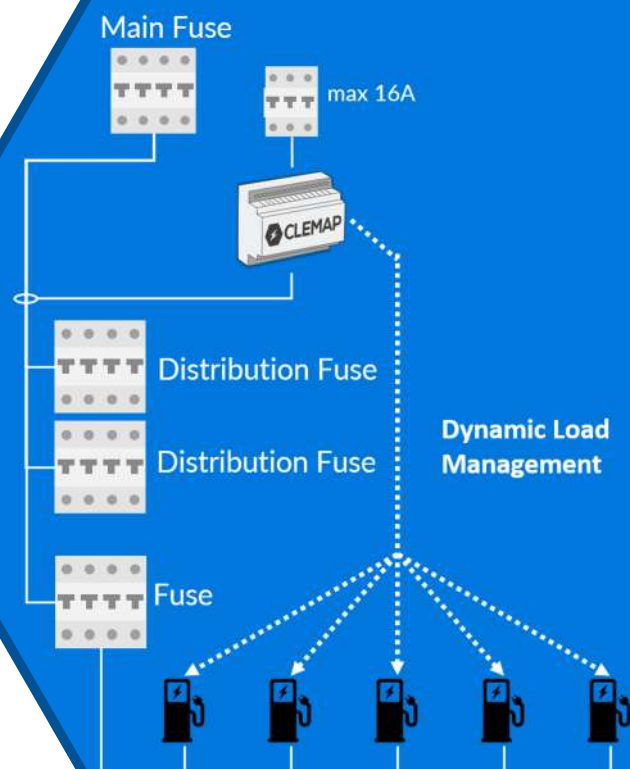
The CLEMAP Load Management is used to fully monitor energy consumption from 42A to 6'000A and perform the real time load management of electric vehicle charging station, thus avoiding the otherwise necessary increase of the main connection rating. It is installed in control cabinets or distribution boxes and functions as a decentralized measuring point.

The product consists of a three-phase electrical sensor and a current transformer. The voltage is sampled after a protection fuse and the current is measured with a current transformer (magnetic current transformer or Rogowski coil).

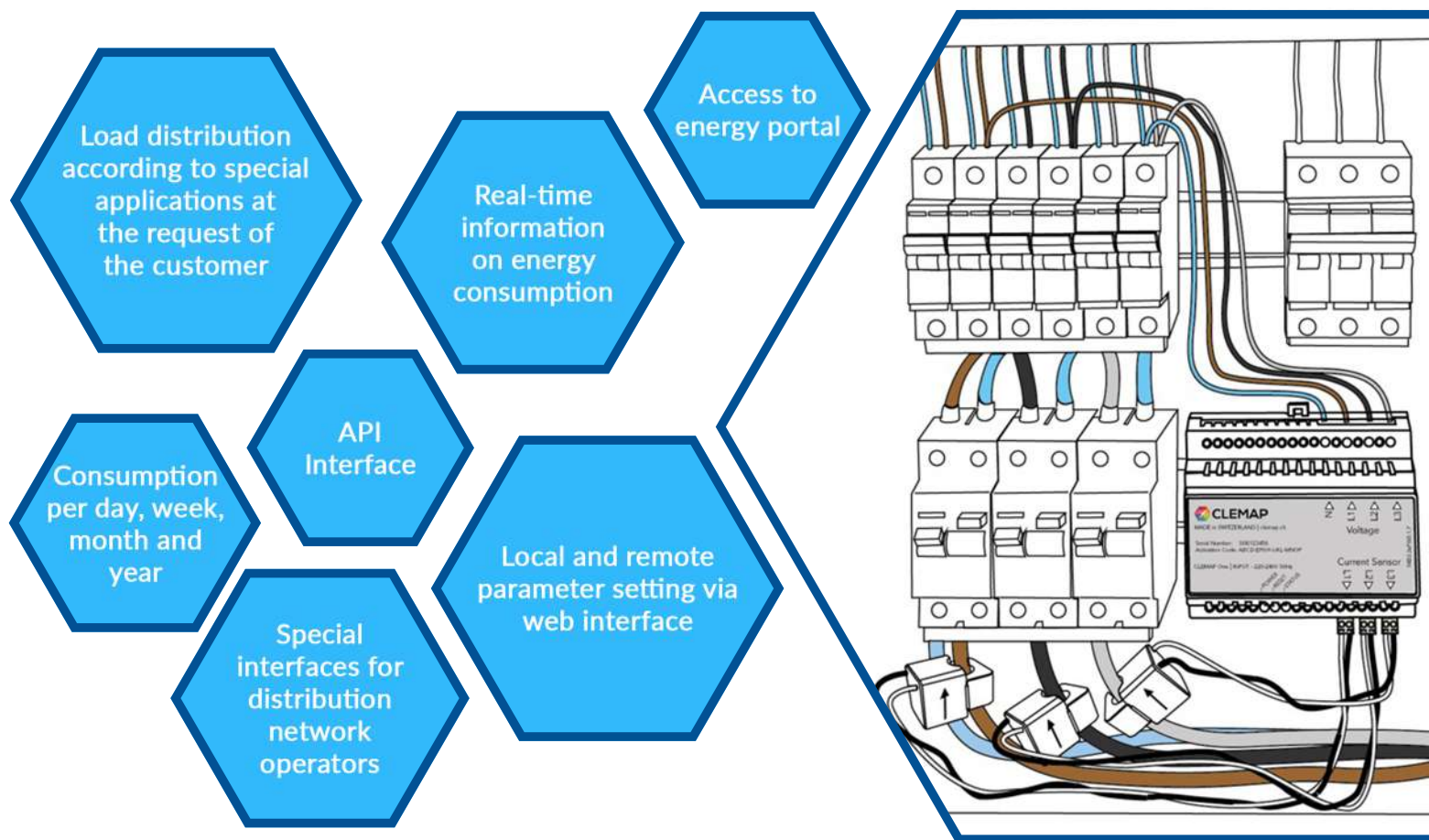
To transmit the energy data, the CLEMAP Load Management requires an Internet connection. This can usually be established wireless or via a LAN network. As soon as the connection is established, the sensor connects to the CLEMAP Cloud, where all consumption data is presented.

CLEMAP Load Management sends allowed power consumption or current consumption to the electric car charging stations over the same IP network. The data can as well be sent through the charging station cloud services.

CLEMAP Load Management has two digital inputs for receiving broadcast control signals for control by the distribution network operator and accepts dynamic load reduction commands via API.



# Load management for electric vehicle charging stations



Nominal voltage: 230 V / 400 V	Warranty: 24 months
Maximum current per phase (A): 42/400/6000	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 <ul style="list-style-type: none"> <li>• Active and reactive power: 1 W, 1 VA</li> <li>• Active and reactive energy: 1 Wh, 1 VAh</li> <li>• Readout interval: 1 second</li> </ul>	Security <ul style="list-style-type: none"> <li>• Wireless: WEP, WPA, WPA2</li> <li>• Encrypted communication: TLS/SSL</li> </ul> *with external 3G modem

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**CLEMAP**  
CLEVER ENERGY MAPPING