

# The power of control.



- Controls dynamic charging
- Optimizes peak consumption
- Reduces the capacity rate
- Makes the most of the PV installation
- Flexible electricity rates
- Integrates with most hardware
- Future-proof
- More revenue thanks to new service model

**LEWIZ**

The power of control.



## Added value

**Lewiz** offers your customers what they really ask for: optimal profitability of their energy-saving investments. With the disappearance of the reversing meter and the introduction of the capacity rate, consumers have to be even more aware of their electricity consumption.

**Lewiz** links the yield of the solar panel output to the consumption of a charging station, a home battery or a heat pump and regulates the power supply according to the specific peak consumption. In this way, you provide your customers with just what they want: a lower energy bill and a return on investment for their solar panels.



## Easy to install

**Lewiz** has been designed by experts with respect for experts. As an installer, you are the indispensable link to connect **Lewiz** to the right facilities, so we have made your life as easy as possible. The result: maximum effect for your customer with the least effort. The customer can download a handy app to determine their peak power via their smartphone and see where their consumption and efficiency lie. So you do not always have to intervene. You can monitor remotely and assist your customer.



## Clear tool

**Lewiz** shows you at a glance where the opportunities for your customer are to be found. By using the clear dashboard you can remotely monitor how your customer can further improve their energy management. You also gain insight into how your customer might get more out of an additional investment in a home battery, or how many kWh they should buy, for example. So you can offer your customers additional services that they hadn't yet thought of...



## A new service model

As an installer, **Lewiz** gives you the key to providing additional services and meeting your customers' needs. By concluding a monitoring agreement, you can usually see from a distance how the customer can be helped.

And you have sold an additional service that will bring in extra turnover. What's more, it is a win-win situation: the customer does not have to wait for you to come along and you can use your time for what really counts: providing additional installations.



## Automatic optimization and updates

As an installer, you do not have to set a lot of parameters. Thanks to the handy app used to control **Lewiz**, working together with the customer as a trusted advisor, you determine the basic parameters such as peak consumption and **Lewiz** takes care of the rest. It couldn't be simpler. You can connect **Lewiz** to almost any brand of inverter, charging station or smart meter, regardless of the brand of hardware you install. **Lewiz's** software updates are adapted to the local regulations, which are constantly evolving. **Lewiz** takes this into account in order to offer the customer the greatest possible benefit at all times. Global players don't have that focus. **Lewiz** is made for the market you operate in.



## Future-proof

As an installer, you want to be prepared for the future. **Lewiz** gives you the tools you need to be more important to your customers, now and later on. **Lewiz** is remotely updated with software in line with new initiatives. Are new flexible rates being introduced? **Lewiz** will adapt. Have new high-consumption appliances been brought into the home? **Lewiz** can be connected to them. **Lewiz** means the best savings for the customer today, but is also the best solution for you as an installer tomorrow.

# LEWIZ

## Home Energy Management System

**Lewiz** is an Energy Management System, consisting of a software platform and hardware in a DIN-rail housing that contains a number of specific interfaces for to connect with devices in a home installation. By monitoring and smartly controlling these devices, energy consumption and energy costs are optimized for the consumer.

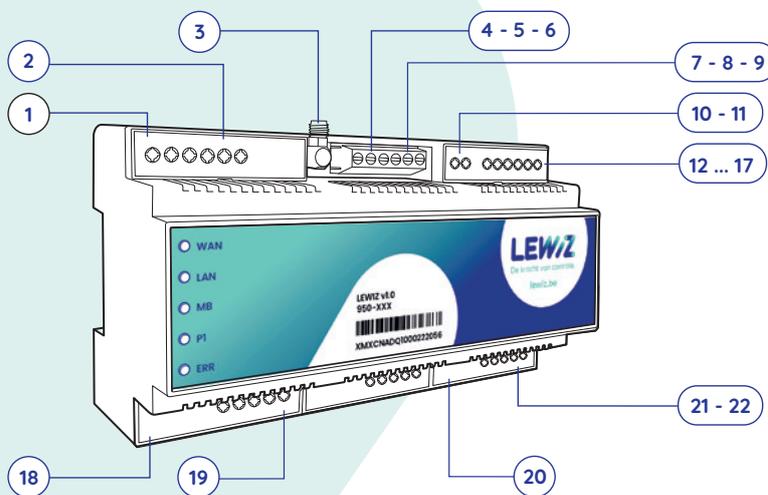
Devices in home installations are connected via **Lewiz**'s RS485, LAN, P1 input, Pulse input, USB or I/O interfaces. In addition, **Lewiz** has a number of USB ports to which additional interface extension modules can be connected, e.g. WiFi or (wireless) M-Bus.

In addition to linking up with devices in the home installation, **Lewiz** is also connected to SIMPL, a cloud-based energy management platform from Cast4ALL. This gives the occupant an insight into their energy flows via the **Lewiz** app. All functions of our PV monitoring system are also available automatically (alarms, production test, CSPS).

By default, the connection with SIMPL is established via **Lewiz**'s built-in 4G communication modem. As an option, **Lewiz** can also be linked via LAN with the Internet router of the home. This makes it possible to follow energy flows in real time.

During installation, **Lewiz** is specifically configured by the installer for the devices present in the home system. After that, **Lewiz** automatically begins its task of monitoring and optimizing the energy flows. The parameters that **Lewiz** uses for this are received via the SIMPL platform and can depend on settings selected by the installation manager, the environment (e.g. weather forecast) or the occupant's preferences entered via the **Lewiz** app, e.g. slow or fast charging of the electric car.

The link with SIMPL also ensures that **Lewiz** always has the latest software versions and additional applications can be installed to support new devices in the home installation or adapt to new energy optimization algorithms.



1	USB-1
2	USB-2
3	LTE antenna connector
4 - 6	RS485-1
7 - 9	RS485-2
10 - 11	Pulse input
12 ... 17	I/O Extension
18	P1 input
19	LAN-1
20	LAN-2
21 - 22	230V AC power

Specifications		
Physical Characteristics	Housing	DIN43880, 9 unit
	Weight	280 grams
	Dimensions	160 x 90 x 58 mm
Environment	Protection class	Class II
	Ambient temperature	-10°C ~ 55°C
	Storage temperature	-20°C ~ 80° C
	Relative operating humidity	10%-95%RH (Non-Condensing)
	Relative storage humidity	5%-95%RH(Non-Condensing)
	Pollution degree	2
	Height	< 2000m
Application area	Residential, indoor in suitable DIN-rail cabinet	
Platform	Processor	iMX6ULL 800Mhz
	Memory	512MB RAM, 4GB EMMC
Interfaces		
Power	Power supply	230V AC, mains powered, < 30W power consumption
	Connector	2 terminal screws
LEDS	LEDS	4 x green, 1 x red
WAN	Modem	LTE CAT-M, ML865G1-WW
	SIM	Internal
	Antenna	External
	Antenna connector	SMA connector
LAN-1 LAN-2	Ethernet	10 / 100 Mb interface.
	Max cable length	100 m
	Connector	RJ45
P1 input	Protocol	Receiver for SMR5.x / DSMR4.x P1 messages
	Max cable length	30 m
	Connector	RJ11, 6 PIN
RS485-1 RS485-2	Protocol	Modbus RTU / Modbus TCP
	Max cable length	100 m
	Connector	3 terminal screws (A, B, Shield)
Puls input	Protocol	S0 input ( 62053-31 )
	Max cable length	30 m
	Connector	2 terminal screws
USB Host	Number of ports	2 internal + 2 external
	Connector	USB A, female
Extension board	Connector	6 terminal screws
Certification RED (2014/53/EU)	Health	EN 62311
	Safety	IEC62368-1:2014 EN62368-1:2014 + A11:2017
	EMC	EN-IEC 61000 EN 61000-3-2: 2014 EN 61000-3-3: 2013
	RF	EN 300 328 - WiFi 2.4 GHz EN 301 908-13 - LTE



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Want to know more? Contact us at [lewiz.eu](http://lewiz.eu)