

The power of control.



- Controls dynamic charging
- Optimizes peak consumption
- Reduces the capacity tariff
- Profitabilizes the PV installation
- Flexible electricity tariffs
- Integrates with most hardware
- Future-proof
- More revenue thanks to new service model

LEWIZ

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Added value

Lewiz delivers your customers what they really ask for: optimal profitability of their energy-saving investments. With the disappearance of the reversing counter and the introduction of the capacity tariff, consumers have to be even more conscious of their electricity consumption. **Lewiz** links the yield of the solar panels 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 what they desire: a lower energy bill and a return on investment for their solar panels.



Simple installation

Lewiz is expertly designed with respect for the professional installer. As an installer, you are the indispensable link in connecting **Lewiz** to the right facilities, so we have made your life as simple as possible. Resulting in a maximum effect for your customer with the least effort. The customer can download a handy app to determine his peak power via his smartphone and see where his consumption and efficiency lies. This way you do not always have to intervene but you can monitor remotely and assist your customer.



Clear tool

Lewiz shows you at a glance where the opportunities for your customer are hidden. By using the clear dashboard you can remotely monitor how your customer can still improve his 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 he should buy, for example. This way you can offer additional services to your customers that they hadn't thought of yet...



A new service model

As an installer, **Lewiz** gives you the key to providing additional services and solving the needs of your customers. By making a monitoring agreement, you can usually see from a distance how the customer can be helped. And you have sold an extra service with which you also generate extra turnover. Moreover, it is a win-win situation: the customer does not have to wait for you to come and visit him 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**, you - as a trusted advisor, together with the customer - 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. The software updates of **Lewiz** are adapted to the local regulations, which are constantly evolving. **Lewiz** takes this into account in order to always offer the customer the greatest possible benefit. Global players don't have that focus. **Lewiz** is made for the market you are in.



Future-oriented

As an installer, you want to arm yourself for the future. **Lewiz** gives you the tools you need to be of more significance to your customers, now and in the future. **Lewiz** is remotely updated with software in function of new initiatives. Are new flexible rates being introduced? **Lewiz** will adapt. Are there new large-scale consuming appliances in the household? **Lewiz** can be linked to them. **Lewiz** means the best savings for the customer today, but is also the best solution for you as an installer tomorrow.

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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 linking with devices in a home installation. By monitoring and smartly controlling these devices, energy consumption and energy costs are optimized for the consumer.

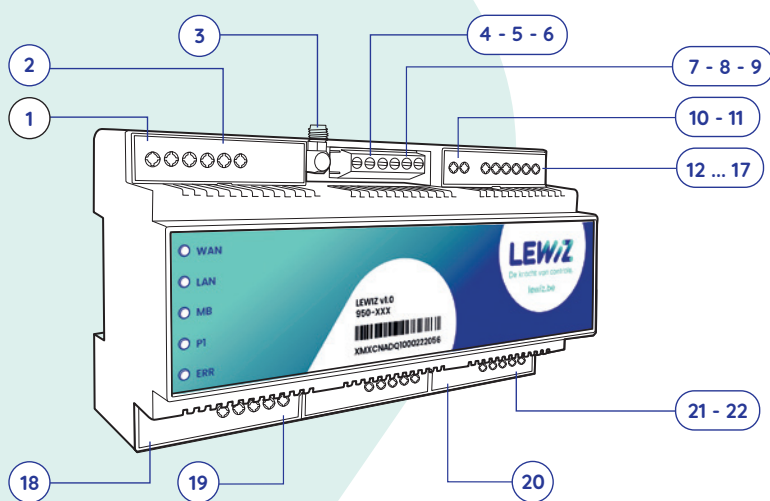
Devices in home installations are linked via **Lewiz**'s RS485, LAN, P1 input, Pulse input, USB or I/O interfaces. In addition, **Lewiz** has a number of USB ports to which additional interface extension modules can be linked, e.g. WiFi or (wireless) M-Bus.

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

By default, the connection with SIMPL is via the built-in 4G communication modem of **Lewiz**. Optionally, **Lewiz** can also be linked via LAN with the Internet router of the home. In the latter case, the energy flows can be followed 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 made by the installation manager, environment (e.g. weather forecast) or preferences of the resident 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 antenne 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
	Operating relative humidity	10%-95%RH (Non-Condensing)
	Storage relative 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