



LEW1

Single-phase electricity meter



Multipurpose meter of active and reactive energy for single-phase two-wire networks, designed to operate in prepayment LEWsystem Apator. The autonomous prepayment mode is complemented by the ability to work in multi-rate credit mode. Advanced calendars functions, controlled by a real-time clock, ensure high flexibility and configurability for both modes of operation.

FEATURES

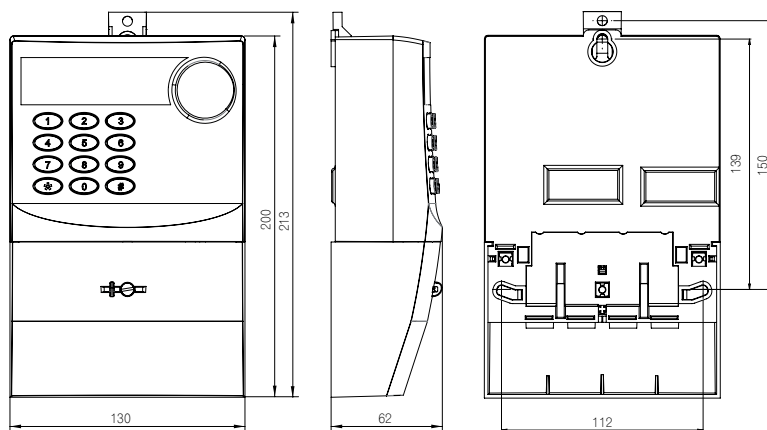
- Bidirectional and reverse measurement of active and reactive energy
- Measurement of power grid parameters: effective current and voltage, frequency, power factor
- Measurement of instantaneous power and maximum power
- Recording load profile
- Built-in contactor allowing disconnection of the current circuit
- Operating mode: prepayment, credit or switched prepayment-credit
- Advanced prepayment functions
- Manual or automatic ending of a billing period
- Memory of at least 21 billing periods data
- Real-time clock managing two switchable complex calendars
- Calendars supporting 16 time zones and allowing to define any number of special days and permanent holidays, and 240 movable holidays
- Current and power limiting features
- Event logging
- Communication via an optical port
- TV remote control via infrared port
- Control via remote LEW CIU customer interface unit
- LED display for easy readouts in all conditions

Meter's functions depend on the operation mode

Multipurpose, Proven

TECHNICAL DATA

Model		LEW1
Connection method		direct
Rated voltage U_n	[V]	230
Reference current I_{ref}	[A]	5 or 10 or 15
Maximum current I_{max}	[A]	40 or 60 or 80
Measurement accuracy of active energy		A or B
Measurement accuracy of reactive energy		2 or 3
Power consumption in current circuit	[VA]	0,1
Power consumption in voltage circuit	[W] / [VA]	<1 / <3
Electric strength	[kV]	4 (AC 50 Hz), 6 (surge 1,2/50 μ s)
Impulse frequency	[imp/kWh]	2560 or 5120
Clock		Internal, accuracy better than 0.5 s/24 h at 23°C.
Communication		Optical port, baud rate configurable from 300 to 19200 Bd, protocol support: EN 62056-21 (IEC1107), support of the proprietary system protocol. Infrared port (RC5).
Event logging		End of a billing period, power loss and return, current and power overload, synchronisation of the real-time clock, changed configuration of the calendar, unauthorized removal of the terminal box cover, magnetic field tampering with date and time stamp.
Display		LED display
Temperature of operation		from -40°C to 70°C
Casing		IP 54, class II insulation
Standards		MID Directive (B+D) EN 50470



TYPE DESIGNATION

LEW 1 2 1 P N E

- LED display
- none communication module
- prepaid meter
- maximum current: 40 A
- base current: 5 A

This publication has been made exclusively for information purposes and shall not constitute an offer under the civil law. The designs are presented as an example; functions of the meter can be customised.

