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LE-03ETH-CT

Three-phase bidirectional energy meter

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Three-phase. Backlit LCD display. Semi-direct, bi-directional, four-quadrant measurement of electricity and network parameters.

MID directive compliant, Modbus TCP communication interface.



DESCRIPTION



Compliance

MID Directive 2014/32/EU
Certificate No. 0120/SGS0753

Purpose

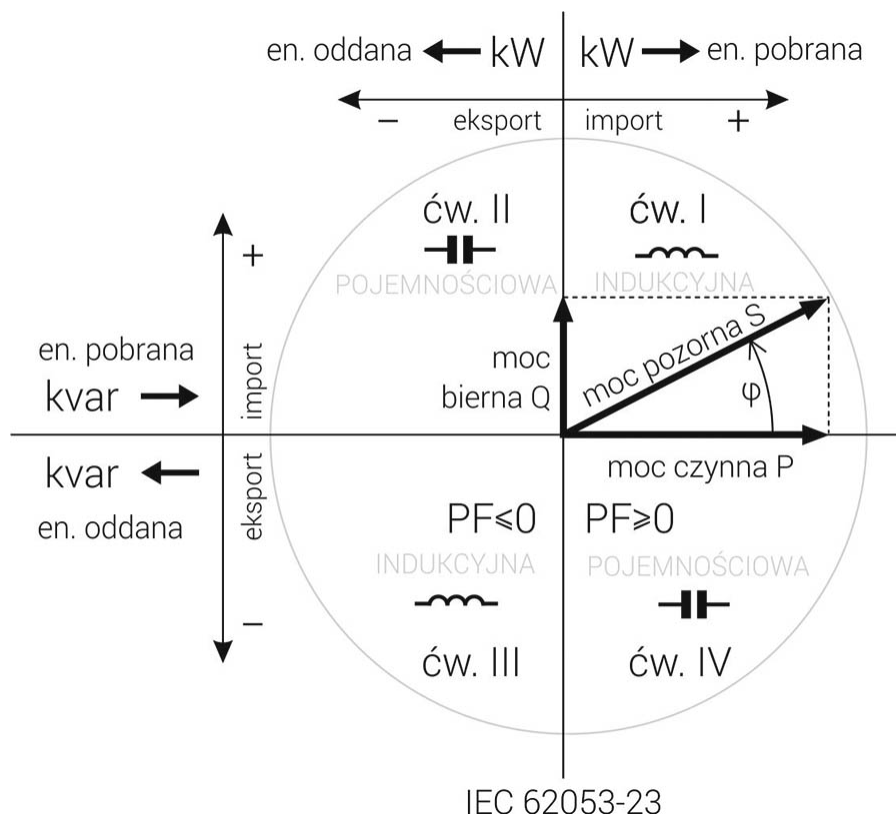
The LE-03ETH CT is an electronic, multifunctional, certified (MID declaration) electricity meter, suitable for semi-direct (using current transformers) or indirect (using voltage and current transformers) metering. The meter is suitable for remote reading via the built-in Ethernet communication port and Modbus TCP protocol support.

Functions

- Designed for measurements in 1-phase and 3-phase systems (3- and 4-wire);
- 2-way active and reactive energy measurement (import and export);
- Support for 1 A and 5 A current transformers with a ratio of 1 to 9999;
- Support for voltage transformers in the range 100÷500 V and ratio 1 to 9999;
- Display of kWh/kvar (consumed/generated);
- Indication of network parameters;
- MID compliance;
- Ethernet port;
- Modbus TCP protocol;
- Backlit, multifunction LCD display;
- Possibility of password protection of the meter configuration.

Measured values

Active energy input/output	AE+/AE-	[kWh]
Reactive energy input/output	RE+/RE-	[kvarh].
Phase voltages	U1, U2, U3	[V]
Phase currents	I1, I2, I3	[A]
Frequency	F	[Hz]
Active power	P	[W]
Reactive power	Q	[var].
Apparent power	S	[VA]
Power factor	cosφ	
Harmonics THD	%	
Power and current demand	kW, kvar, kVA, I	

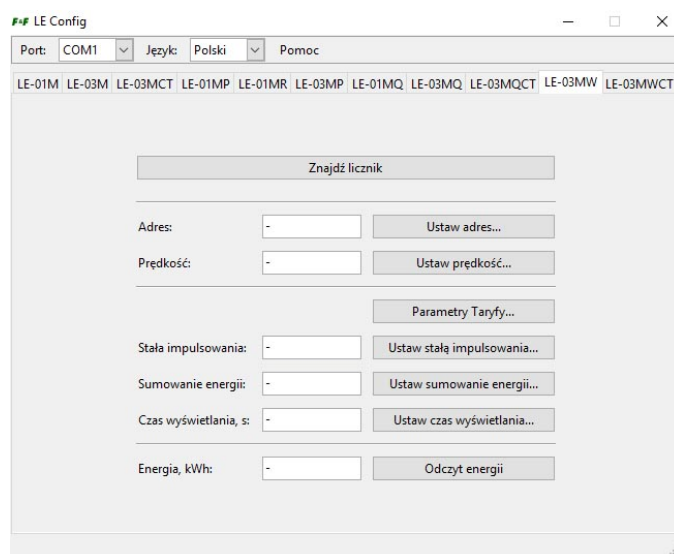


Service programme

LE Config

The programme allows the test reading of billed energy values and the setting of basic meter parameters.

[LE Config programme > download](#)



PC-LE communication by means of USB [CN-USB-485](#) converter [▶](#).

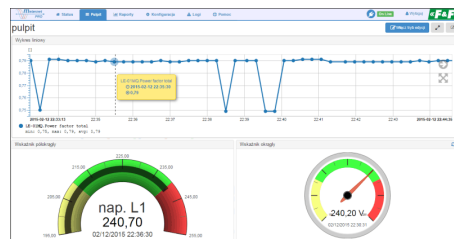
Program free of charge.

Programs for remote reading of the following meters

LE-01M, LE-03M, LE-03M-CT, LE-01MR, LE-03MP, LE-1MQ, LE-03MQ, LE-03MQ-CT, LE-01MW, LE-03MW, LE-03MW-CT

MeternetPRO

The MeternetPRO application enables remote reading of states and indications of counters, multimeters, measuring transmitters, I/O expansion modules and other measuring devices communicating according to the Modbus RTU protocol. The application is an integral part of Excel. The read-out data is presented in a table in the programme. The data can be freely shaped according to the software functions of the spreadsheet. Data exchange between the devices and the application is carried out via RS-485 network or LAN. The programme together with the database is installed on a special MT-CPU-1 server, which operates in the local network. The software user interface is a web application (website). Access to the programme is via any web browser. In the case of a LAN with a public IP address, it is possible to configure the programme's operation and data reading via the Internet.



Subscriber billing module for electricity consumption

Subscriber billing module for electricity consumption or other recorded incremental values, e.g. water consumption, heat consumption, etc. Allows for the calculation of value increments in defined settlement periods (time intervals). Cycles: monthly, weekly, daily, hourly. The module allows the creation of many individual and parallel reports.



TECHNICAL DATA

Nominal current (In)	5 A
Max. current (Imax)	6 A
Nominal voltage (Un) N-L	160-265 V
Frequency	50-50 Hz
Power consumption	2 W
Model	Measurement transformer
Measurement type load profile	Nie
Escapement mechanism	Tak
Calibrated	Tak
Width in number of modular spacings	4.5
Width	75 mm
Depth	65 mm
Height	95 mm
EEC40 signature	Nie
With lock code	Nie
Number of positions total (counter)	7
Type of meter	Electronic
Accuracy class	B
Pole type	Three conductor/four conductor
Energy type	Effective power and reactive power
Suitable for	Purchase/supply
Tariff type	One-tariff
Approval	Measuring Instruments Directive
Pulse output	Electrical
Pulse type	S0
Type of indication	Digital
Mounting method	DRA (DIN-rail adaptor)
Type of interface	Other
Degree of protection (IP)	IP20