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LE-03MB

Three-phase energy meter

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Three-phase, direct, bidirectional, four-quadrant electricity and network parameters measurement, compliant with the MID directive, M-Bus communication interface.



DESCRIPTION

LE-03MB is a static (electronic) calibrated electricity meter with single-phase or three-phase alternating current in a direct system. It is used for the indication and registration of the collected electricity and the parameters of the power supply network with the possibility of remote reading of indications via a wired M-Bus standard network. The meter configuration takes place via the configuration menu available from the front panel and through the communication port in accordance with the M-Bus programming functions.



Functions

- * 3-phase
- * two-way (4-quadrant)
- * 100 A direct measurement
- * kWh / kvar indication (downloaded / given)
- * indication of network parameters
- * compatibility with MID
- * port and M-Bus protocol
- * SO pulse output
- * backlit, multifunctional LCD display
- * password protection with password

Measured values

Active energy collected / delivered AE + / AE- [kWh]

Energia bierna pobrana / oddane RE + / RE- [kvarh]

Voltage voltages U1, U2, U3 [V]

Phase currents I1, I2, I3 [A]

The frequency F [Hz]

Active power P [W]

Reactive power Q [var]

Apparent power S [VA]

Power factor $\cos\phi$

harmonics THD

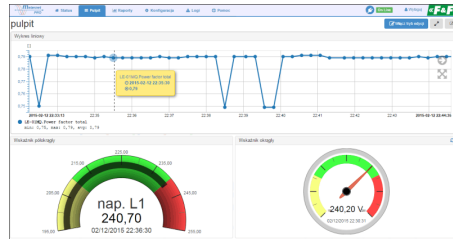
Demand for power and electricity

Programs for remote reading of electricity meters

LE-01M, LE-01MP, LE-01MQ, LE-03M, LE-03MP, LE-03M CT

MeternetPRO

The MeternetPRO application allows remote reading of states and indications of counters, multimeters, measuring transducers, expansion modules of input/output and other measuring devices communicating through Modbus RTU protocol. The exchange of data between devices and the application is executed through RS-485 or local area network (LAN). The application, along with the database is installed on a special MT-CPU-1 server, which operates in a local network. Software user interface is a web application (web site). Access to the application is executed through any web browser. In a LAN with a public IP address, you can configure the application and read the data over the Internet.



Subscription billing of electricity consumption module

Module of the subscription billing of the power consumption or other recorded incremental value, for example: water, heat, etc. It allows you to calculate the increases in the value in the designated billing periods (intervals). Cycles: monthly, weekly, daily, hourly. The module allows you to create multiple individual and parallel reports.



Meternet

Program allows remote reading via RS-485 network display up to 1000 indicators.

Exchange of data between the counters and the application is done via a standard RS485 <-> USB port or server on the LAN (Ethernet). For LAN connection to the router with a static IP address, you can read the data via the Internet.

The screenshot shows the Meternet desktop application interface. It features a menu bar with options like 'Narzedzia glowne', 'Wstawianie', 'Ustawienia', 'Formaty', 'Dane', 'Sprawdz', 'Wskaz', and 'Dodaj'. Below the menu is a toolbar with various icons. The main area displays a table with the following columns: 'Nr', 'Nazwa', 'Opis', 'Czas Aktualizacji', 'Status', 'nr Bledu', 'Ilosc OK', 'Ilosc Bledow', and 'Wartosc'. The table contains 23 rows of data, with some rows highlighted in red. The status column shows 'Dobra' (Good) for most rows, but some are marked as 'Bled' (Error).

Nr	Nazwa	Opis	Czas Aktualizacji	Status	nr Bledu	Ilosc OK	Ilosc Bledow	Wartosc
1	Licznik 1	Hala A		Dobra	0	0	0	3947.37
2	Licznik 2	Hala A		Dobra	0	0	0	5334.60
3	Licznik 3	Hala A		Dobra	0	0	0	171283.8
4	Licznik 4	Hala A		Dobra	0	0	0	193646.8
5	Licznik 5	Hala A		Dobra	0	0	0	47463.78
6	Licznik 6	Hala A		Dobra	0	0	0	3948.2
7	Licznik 7	Hala A		Dobra	0	0	0	57375.9
8	Licznik 8	Hala B		Dobra	0	0	0	4534.87
9	Licznik 9	Hala B		Bled	14	0	2	37830.02
10	Licznik 10	Hala B		Dobra	0	0	0	364654.21
11	Licznik 11	Hala B		Dobra	0	0	0	484752
12	Licznik 12	Hala B		Dobra	0	0	0	68464.4
13	Licznik 13	Hala B		Dobra	0	0	0	482448.6
14	Licznik 14	Hala B		Dobra	0	0	0	29162.83
15	Licznik 15	Hala C		Dobra	0	0	0	351987
16	Licznik 16	Hala C		Bled	14	0	1	8383.12
17	Licznik 17	Hala C		Dobra	0	0	0	13937.56
18	Licznik 18	Hala C		Dobra	0	0	0	6253.96
19	Licznik 19	Hala C		Dobra	0	0	0	16475.8
20	Licznik 20	Hala C		Dobra	0	0	0	38949.28
21	Licznik 21	Hala C		Dobra	0	0	0	74633.2
22	Licznik 22	Hala C		Dobra	0	0	0	29736.9
23	Licznik 23	Hala C		Dobra	0	0	0	35374.9

TECHNICAL DATA

Nominal current (In)	5 A
Max. current (Imax)	100 A
Nominal voltage (Un) N-L	160-265 V
Model	Direct measurement
Measurement type load profile	Nie
Escapement mechanism	Tak
Calibrated	Tak
Pulse rate	0.01-100 imp/kWh (kvarh)
Width in number of modular spacings	4.5
EEC40 signature	Nie
With lock code	Nie
Frequency	50-50 Hz
Type of meter	Electronic
Accuracy class	B
Pole type	Single phase
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	M-bus (wired)
Degree of protection (IP)	IP20
Number of positions total (counter)	7
Height	100 mm
Depth	65 mm
Width	72 mm
Power consumption	2 W

Manual

CE declaration

Certificate