

**ELECTRICITY CONSUMPTION METER**  
 three-phase **LE-03MB CT**

**WARRANTY.** The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us. More information how to make a complaint can be found on the website: [www.fif.com.pl/reklamacja](http://www.fif.com.pl/reklamacja)



Do not dispose of this device in the trash along with other waste! According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.

**Purpose**

LE-03MB CT is a static (electronic), calibrated electricity meter of single-phase and three-phase alternating current in direct system. It is used for reading and recording of imported electricity and parameters of the power supply with the ability of remote reading through a wired M-Bus network. The meter works with current transformers (CT) with 1 A or 5 A secondary current. Configuration of the meter is done through the configuration menu accessible from the front panel and through the communication port according to the software features of the M-Bus.

**User manual and programming**

PDF manual available on:

[le.fif.com.pl](http://le.fif.com.pl)

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**According**

LVD 2014/35/UE Directive

**Features**

- \* 1- or 3-phase system (3- and 4-wire)
- \* bidirectional (4-quadrant)
- \* 1 A or 5 A transformers
- \* current gear 1÷9999
- \* kWh/kvar indication (imported/exported)
- \* indication of network parameters
- \* according with LVD
- \* M-Bus port and protocole
- \* pulse output SO (x2)
- \* backlit, multi-function LCD display
- \* password protected set-up

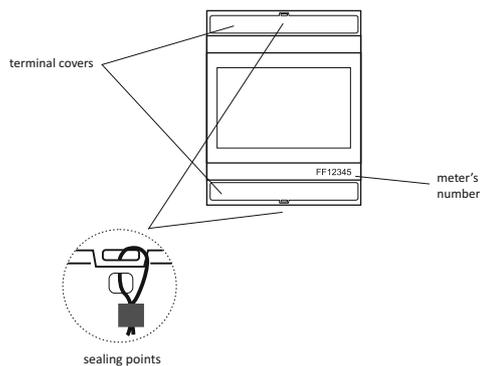
**Measured values**

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

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**Meter's number**

The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed.



**Sealing**

The meter has sealable input and output terminal covers to prevent any attempts to bypass the meter.

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**Technical data**

reference voltage	3×230/400V+N
base current	0.25÷5A
maximum current	6A
minimum current measured	0.02A
measured voltage	
L-N	100÷289V AC
L-L	173÷500V AC
measured accuracy	1 <sup>st</sup> class
overload	30×Imax/10msec
isolation	4kV/1min; 6kV/1.2μs
own power consumption	<10VA; <2W
current inputs power	<1VA
indication range	0÷9999999.9kWh
meter constant kWh	3200 pulse/kWh
meter constant kvarh/kWh	0,01, 0,1, 10, 100 pulse/kvar
read-out signalling	1×LED
pulse outputs kWh/kvarh	OC (open collector); 27V DC/50mA
pulse time kWh/kvarh	60, 100, 200msec
port	M-Bus slave
communication protocol	M-Bus
working temperature	-25÷55°C
terminal	2.5mm <sup>2</sup> screw terminals
dimensions	4 modules (72mm)
mounting	on TH-35 rail
protection level	IP51

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