

# MB1

## SINGLE-PHASE WATT-HOUR METER WITH ELECTROMECHANICAL COUNTERS

**MB1** is a single-phase one or two tariffs class 1 or 2 digital watt-hour meter. Meter is intended for direct connection in domestic and industrial applications.

Current and voltage operating ranges are 60A or 40A (Base current 5A or 10A) and 230V.

Meter **MB1** has pulse output, and LED diodes for pulse out and tariff indication.

Measured values of active energy are shown on electromechanical counters.

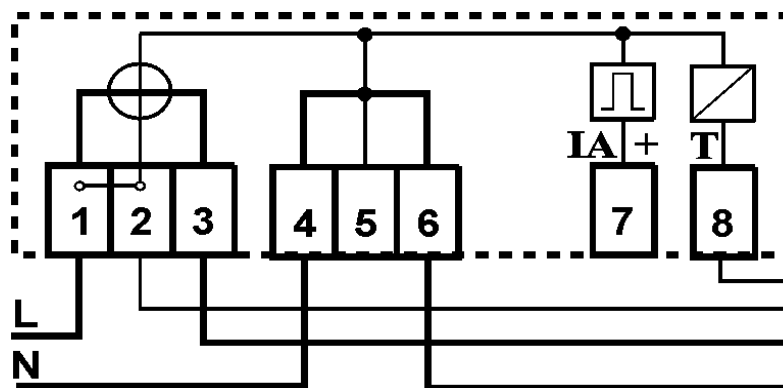
**MB1** connection to mains is simple and fast, see figure.

Watt-hour meter **MB1** is a digital system based on digital processing of input currents and voltages obtained by A/D converters.

Device **MB1** is realized in VLSI CMOS technology having reliability, low power consumption, operation in wide range of ambient temperatures, and low aging.

Meter **MB1** is placed in one polycarbonate case having one mains connector.

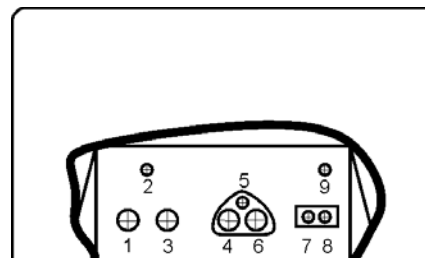
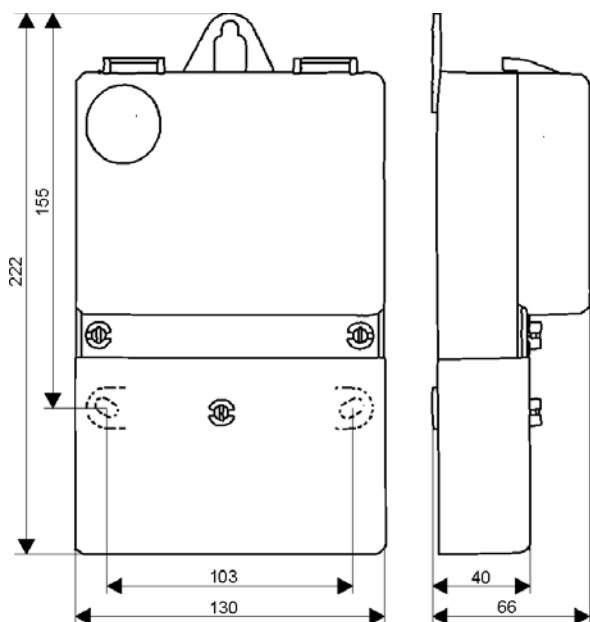
**Connection diagram**



## Technical characteristics

Type	MB1	Power consumption:	
Rated voltage $V_n$	230V (+15%, -20%)	voltage circuit at $V_n$	< 1W (9VA)
Rated frequency $f_n$	50 Hz	current circuit	< 0.5VA
Base current $I_B$	10A, 5A	AC voltage withstand	4kV, 50Hz, 1 minute
Maximum current $I_M$	60A direct connection	Impulse voltage withstand	6kV, 1.2/50 $\mu$ s
Constant of meter	3200 impulses/kWh	Operating temperature range	-20°C, +65°C
Class of accuracy active	IEC 1036 class 1 or 2	Ambient relative humidity	<90%
Starting current threshold	< 50mA	Case dimensions	222x130x66 mm
Pulse out:	opto-cupled, open collector	Hole for wire	6.5 mm diameter
	3200 pulses/kWh	Weight	0.5 Kg
voltage(max)	6V		
current (max)	0.5mA		
pulse duration	90ms		

## Assembling data



## Ordering information

**MB1- 60- 2 2 5**  
 model max current class number of tariffs base current

Additional data and price list are available upon request.

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