ENEL d.o.o. Beograd

DB2M MG US 5(5)A

TRANSFORMER COUPLED SINGLE-PHASE DIGITAL METER WITH SWITCH CLOCK

DB2M MG US 5(5)A is a single-phase transformer coupled digital meter placed in one plastic case. Functions of next instruments are included:

- two-tariff single-phase active energy meter of accuracy class 1 including two maximum demand indicators of class 1, MAX-P1 for the first and MAX-P2 for the second tariff;
- two-tariff single-phase reactive energy meter of class 2;
- switch clock for control of tariff, which is programmable by Psion (software PSIRTC) or by PC (software RTCTIME);
- generator 900s/9s for control of maximum demand indicator.

Meter **DB2M MG US 5(5)A** can be used on 230V and for indirect transformer current coupling on 5A.

Meter **DB2M MG US 5(5)A** has pulse outputs, and LED diodes for pulse out and tariff indication.

Measured data for active and reactive energy, maximums of power, active tariff, current, voltage and power, time and date are shown on LCD, cyclically. Reset of maximum demand indicator is made by push-button placed on mains connector.

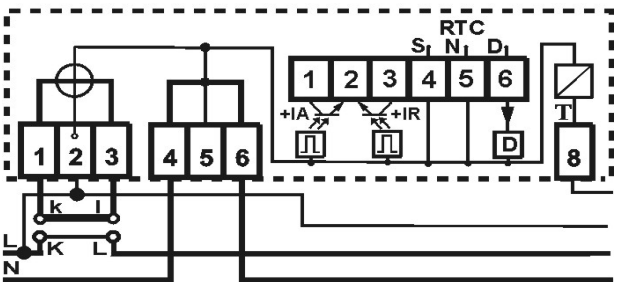
Meter **DB2M MG US 5(5)A** can be equipped by:

- optical infrared port IEC 61107 which provides meter reading and programming by Psion (software PSIDB2) or by PC (software DB2IEC);
- external inputs for control of up to four tariffs.

Meter **DB2M MG US 5(5)A** can be programmed to register and record:

- values of active and reactive energy counters and maximum demand indicators on the first day of month at 00.00h, for 16 months. Data could be accessible through display and optical port;
- values of active and reactive energy counters and maximum demand indicators at up to 40 arbitrary points with resolution of 1h. Data are accessible trough optical port.

Connection diagram



Technical characteristics

Type	DB2M
Rated voltage V_n	230V (+15%, -20%)
Rated frequency f_n	50 Hz
Base current I_B	5A
Maximum current I_M	5A, transformer connection
Constants of meter	1000 impulses/kWh (kvarh) or 250 impulses/kWh
Class of accuracy active	IEC 1036 class 1
Class of accuracy reactive	IEC 1268 class 2
Class of maximum demand	IEC 211 class 1
Starting current threshold	< 50mA
Pulse out:	optocupled, S0, IEC62053-31 Class B, 1Wh (varh)/pulse
voltage/current (max)	15V/15mA
duration	30ms
Optical infrared port	IEC 61107, Mode A
Power consumption:	
voltage circuit at V_n	< 1W (9VA)
current circuit	< 0.5VA

AC voltage withstand	4kV, 50Hz, 1 minute
Impulse voltage withstand	6kV, 1.2/50μs
Operating temperature range	-20°C, +65°C
Ambient relative humidity	<90%
Case dimensions	237x130x66 mm
Hole for wire	6.5 mm diameter
Weight	0.5 kg

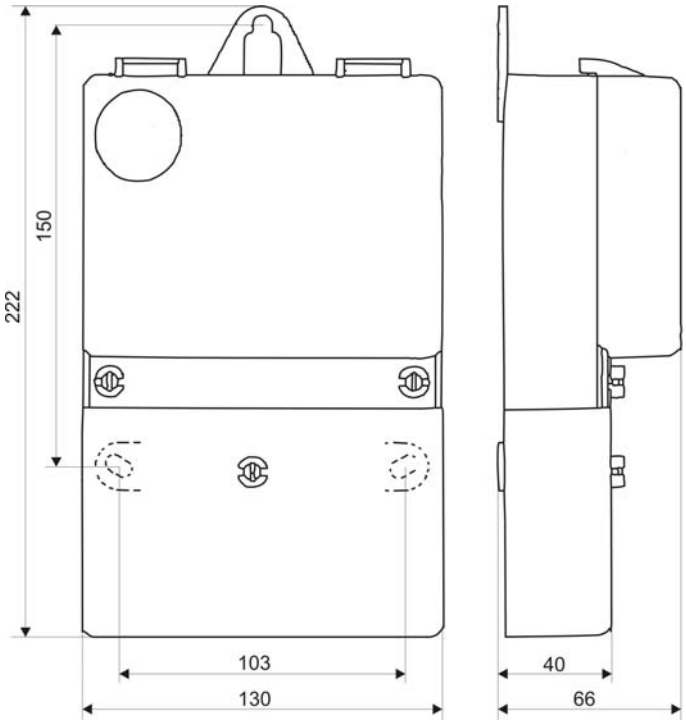
Function of maximum demand indicator of class 1

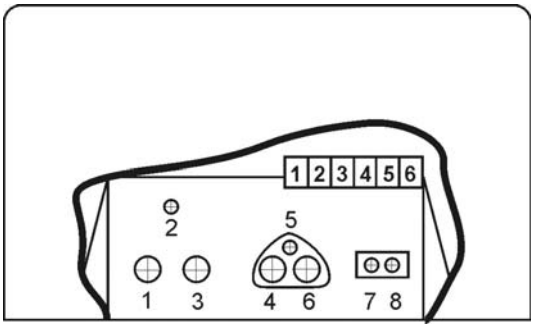
Class of accuracy	IEC 211 class 1
Measurement periods for mean power measurement	15 minute/9s

Function of switch clock

Real time clock stability	±1 minute/month
Expected battery life	> 17 years
Optical port	IEC 61107,Mode A

Assembling data





Ordering information

DB2M MG US 5(5)A	**OC**	**4T**
model	optical port	four tariffs

Additional data and price list are available upon request.

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