

DMG2 US

TRANSFORMER COUPLED DIGITAL METER WITH SWITCH CLOCK

DMG2 US is a three-phase transformer coupled digital meter placed in one plastic case. Functions of next instruments are included:

- two-tariff three-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 three-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 time of maximum demand indicator.

Meter **DB2 MG** can 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.

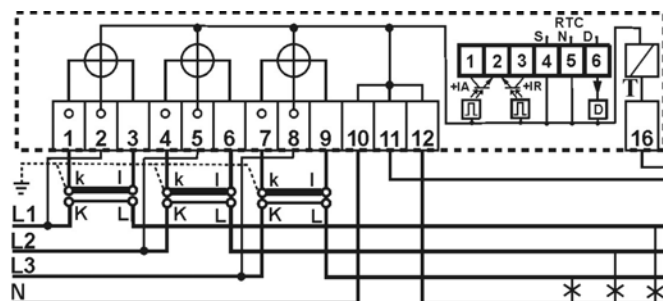
Meter **DMG2 US** can be used in three-system/four-wire connection in one direction on 230V/400V and for transformer current coupling on 5A .

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

Meter **DMG2 US** 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 up to four tariffs.

Connection diagram



Technical characteristics

Type	DMG2
Rated voltage V_N	3x230/400V (+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)
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/phase
Pulse out:	optocoupled, 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)/phase
current circuit	< 0.5VA/phase
AC voltage withstand	4kV, 50Hz, 1 minute
Impulse voltage withstand	6kV, 1.2/50 μ s
Operating temperature range	-20°C, +65°C
Ambient relative humidity	<90%
Case dimensions	333x170x68 mm
Hole for wire	6.5 mm diameter
Weight	1.5 kg

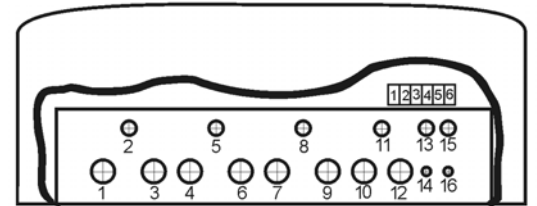
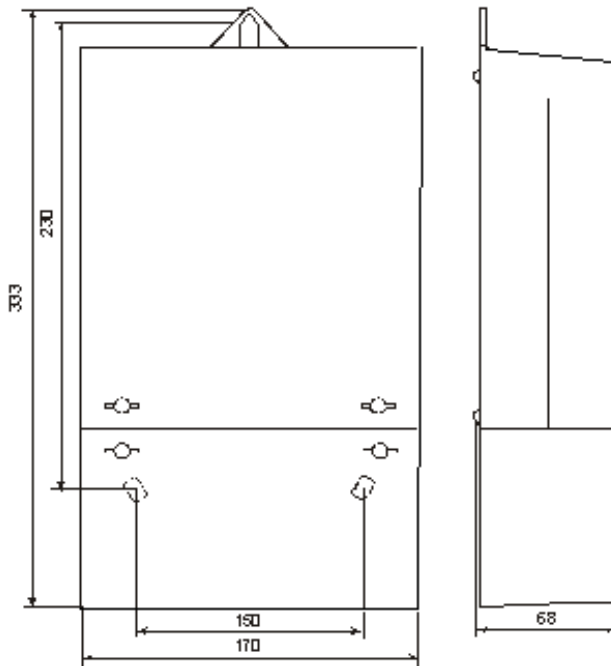
Function of maximum demand indicator of class 1

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

Function of switch clock

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

Assembling data



Ordering information

DMG2 US	OC	4T
model	optical port	four tariffs

Additional data and price list are available upon request.

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