

DB2 MG

DIGITAL THREE PHASE MULTIFUNCTION METER

DB2 MG is a three phase two tariff class 1 or 2 digital watt-hour meter and class 2 or 3 varhour meter. Meter is intended for four wires direct connection in domestic and industrial applications. Meter has two maximum demand indicators of 15-minute mean active power, P1 for first and P2 for second tariff.

Current and voltage operating ranges are 3x100A, 3x80A, 3x60A or 3x40A (Base current 10A or 5A), and 3x230/400V.

Meter **DB2 MG** includes clock for maximum demand indicator control. External input for tariff control is also available.

Meter **DB2 MG** has pulse outputs, and LED diodes for pulse out and tariff indication.

Measured values of active and reactive energy, maximum of power, active tariff, phase powers, voltages and currents, are shown on LCD indicator, cyclically.

Meter **DB2 MG** can be equipped by:

- external inputs for control up to four tariffs;
- switch clock for tariff control which is programmable by Psion (software PSIRTC) or by PC (software RTCTIME);
- optical infrared port which provides meter reading and programming by Psion (software PSIDB2) or by PC (software DB2IEC).

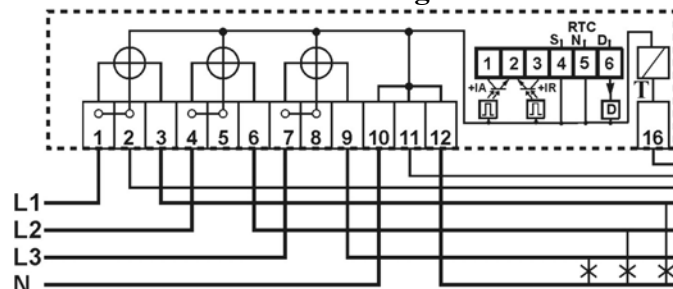
Meter **DB2 MG** can register and record:

- 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 **DB2 MG** is a multiprocessor system based on digital processing of input current and voltage obtained by A/D converters. Device **DB2 MG** is realized in VLSI CMOS technology having reliability, low power consumption, operation in wide range of ambient temperatures, and low aging.

Meter **DB2 MG** is placed in one case having one mains connector.

Connection diagram



Technical characteristics

Type	DB2
Rated voltage V_n	3x230/400V (+15%, -20%)
Rated frequency f_n	50 Hz
Base current I_B	10A or 5A
Maximum current I_M	100A direct connection
Constant of meter	1000 impulses/kWh (kvarh) or 250 impulses/kWh
Class of accuracy active	IEC 1036 class 1 or 2
Class of accuracy reactive	IEC 1268 class 2 or 3
Starting current threshold	< 50mA/phase
Pulse out:	optocoupled, S0, IEC 62053-31 Class B, 1Wh (varh)/pulse
voltage(max)	15V
current (max)	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, +60°C
Ambient relative humidity	<90%
Case dimensions	333x170x68 mm
Hole for wire	6.5 mm diameter
Weight	1.5 kg

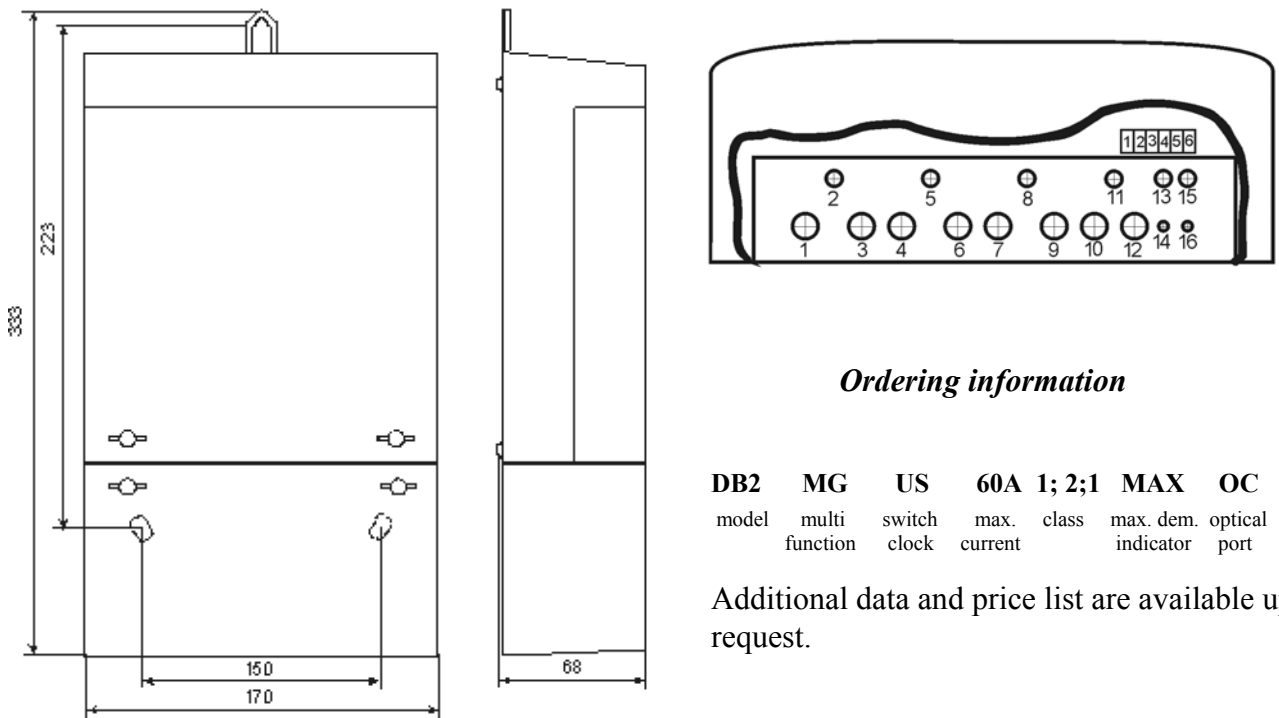
Function of maximum demand indicator of class 1

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

Function of switch clock

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

Assembling data



Ordering information

DB2 MG US 60A 1; 2;1 MAX OC 4T
 model multi switch max. class max. dem. optical four
 function clock current indicator port tariffs

Additional data and price list are available upon request.

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