

# DB2 5(5)A

## DIGITAL THREE-PHASE WATT-HOUR METER FOR TRANSFORMER COUPLING ON 5A

**DB2 5(5)A** is a three-phase two-tariff class 1 digital watt-hour meter for transformer coupling on 5A. Meter is intended for half direct connection in domestic and industrial applications.

Current and voltage operating ranges are 3x5A (Base current 5A), and 3x230/400V.

Meter **DB2 5(5)A** includes external input for tariff control.

Meter **DB2 5(5)A** has pulse output and LED diodes for pulse out and tariff indication.

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

Meter **DB2 5(5)A** can be equipped by:

- external inputs for control up to four tariffs;
- maximum demand indicators of 15-minute mean active power and generator 900s/9s;
- 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).

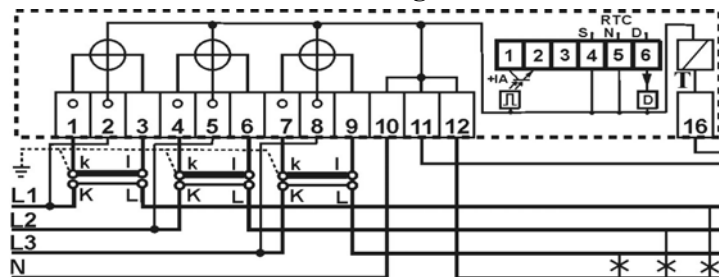
Meter **DB2 5(5)A** can register and record:

- values of active 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 energy counters and maximum demand indicators at up to 40 arbitrary points with resolution of 1h. Data are accessible trough optical port.

Watt-hour meter **DB2 5(5)A** is a multiprocessor system based on digital processing of input current and voltage obtained by A/D converters. Power of microcomputers provides application of complex algorithms for tariff, load management, data processing, tests and communications.

Device **DB2 5(5)A** is realized in CMOS technology having reliability, low power consumption, operation in wide range of ambient temperatures, and low aging.

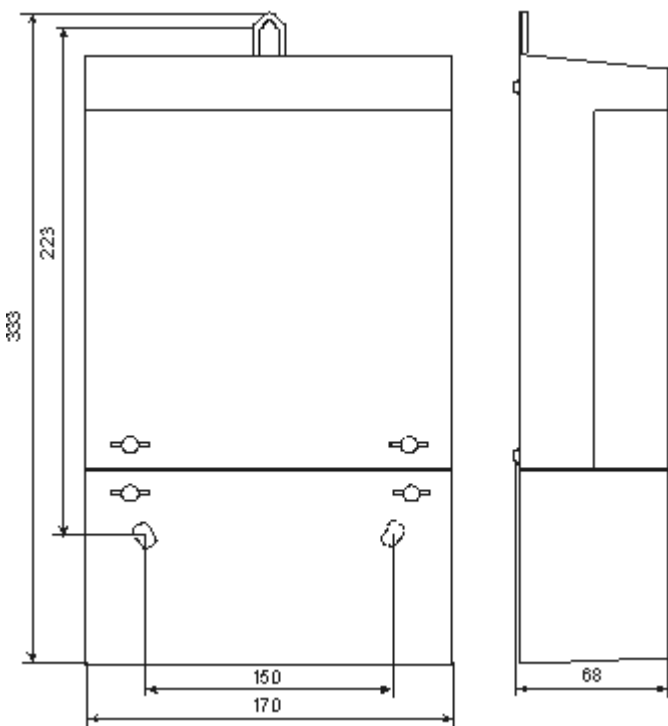
**Connection diagram**



## Technical characteristics

Type	DB2	Power consumption:	
Rated voltage $V_n$	3x230/400V (+15%, -20%)	voltage circuit at $V_n$	< 1W (9VA)/phase
Rated frequency $f_n$	50 Hz	current circuit	< 0.5VA/phase
Base current $I_B$	5A	AC voltage withstand	4kV, 50Hz, 1 minute
Maximum current $I_M$	5A halfdirect connection	Impulse voltage withstand	6kV, 1.2/50 $\mu$ s
Constant of meter	1000 impulses/kWh or 250 impulses/kWh	Operating temperature range	-20°C, +60°C
Class of accuracy	IEC 1036 class 1 or 2	Ambient relative humidity	<90%
Error limits:		Case dimensions	333x170x68 mm
$0.05I_B \div I_M \cos\varphi=1$	$\pm 1\%, \pm 2\%$	Hole for wire	6.5 mm diameter
$0.2I_B \div I_M \cos\varphi=0.5$	$\pm 1\%, \pm 2\%$	Weight	1.5 Kg
Starting current threshold	< 50mA/phase	<b>Function of maximum demand indicator of class 1</b>	
Pulse out:	optocoupled, S0, IEC 62053-31	Class of accuracy	IEC 211 class 1
voltage(max)	15V	Measurement period for mean power measurement	15 minute
current (max)	15mA	Reset time	9s
duration	30ms	<b>Function of switch clock</b>	
Optical infrared port	IEC 61107, Mode A	Real time clock stability	$\pm 1$ minute/month
		Expected battery life	> 17 years
		Optical infrared port	IEC 61107, Mode A

## Assembling data



## Ordering information

**DB2 5(5)A US MAX OC 4T**  
 model switch max. dem. optical four  
 clock indicator port tariffs

Additional data and price list are available upon request.

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