



Dual KWh Energy Meter

Instrument
Division

Dual Source KWh meter 96 x 96 mm size,
measures energy (Watt hour) of both 'MAINS' as well as 'GENSET'.

Data sheet No.: DKWH/10/11



Features:

Available in Size 96mm x 96mm.
 True RMS measurement of energy.
 Phase sequence and Current direction reversal indication.
 Self Powered Auxilliary supply.
 Single meter records both mains / DG energy consumption.
 Individual phase missing indication.
 Automatic source (MAINS/GENSET) detection.
 ONSite selectable CT ratio.
 Isolated solid state separate pulse outputs for both DG & MAINS.
 Display Total Energy (MAINS+GENSET).
 In built RS 485 communication port
 Password protection.

Brief Information:

AE Dual Source KWH meter measures energy (Watt hour) Of both MAINS as well as GENSET, consumed in, Three phase 2 / 3 element, 3 / 4 Wire, balanced / unbalanced load circuits. The meter comprises of advanced microcontroller technology for reliability & accuracy. The user-friendly operation is the unique feature of this meter.

Model available in this range

6-digit LED display With MODBUS (RS-485) communication

6-digit LED display Without MODBUS (RS-485) communication

Application:

- Industrial & Commercial Generator sets.
- Building management System.
- Energy Management System.
- Control & Monitoring Systems.
- Process Control.
- Switch Gears.

Technical Specifications:

Parameters	Description
Type	3P2E3W / 3P3E4W
Input Voltage	110V / 240V / 415V AC ($\pm 20\%$).
Nominal Input Current	1A / 5A AC (5% TO 120% of rated value)
Operating Frequency	45 Hz TO 55 Hz
Operating P.F.	0.5(LAG) – UNITY – 0.8(LEAD)
Accuracy	Class 1
Auxilliary Supply	Self Powered (Auxilliary supply needed for RS-485 only.)
VA Burden	Voltage : ≤ 10 VA / Phase Current : ≤ 0.5 VA / Phase
Genset Sensing voltage	5.....24 V DC
Pulse output	2400 imp. /KWh
Open collector output	24V, 100mA DC.
Insulation Resistance	≥ 20 M Ω @ 500V DC
Dielectric Strength	2kV RMS for 1 min.
Operating temperature	0°C to +60°C
Storage temperature	-20°C to +70°C
Humidity	≤ 95 % RH Non- condensing.
Conforms to	I.S. 13779 / IEC 62052-11 & 62053-21, IS 1248 –(Part1)
Size	96 X 96 X 85 mm
Display color	RED
Display type	6 digit,7 segment Ultra bright LED display.



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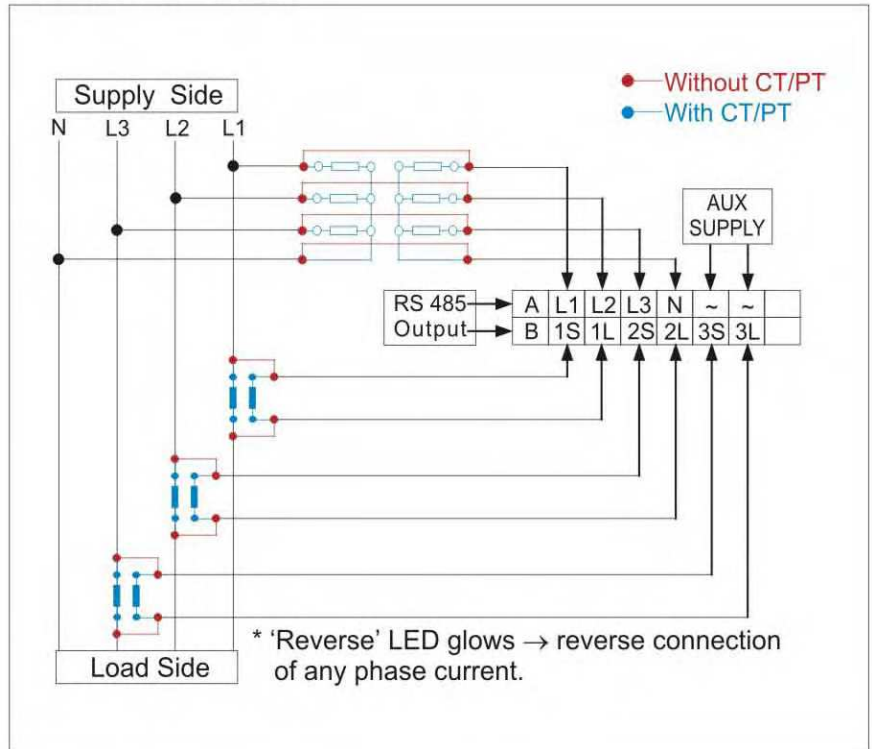
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CTR Selection Chart

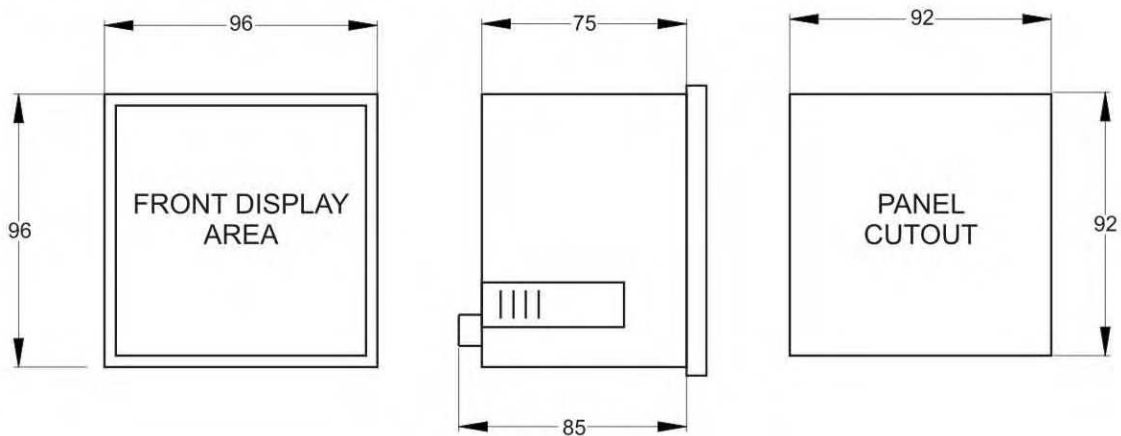
Displayed CT Ratio	CTR Value	Resolution
1	5/5A	0.1
2	10/5A	0.1
3	15/5A	0.1
4	20/5A	0.1
5	25/5A	0.1
6	30/5A	0.1
8	40/5A	0.1
10	50/5A	1
12	60/5A	1
15	75/5A	1
16	80/5A	1
20	100/5A	1
24	120/5A	1
25	125/5A	1
30	130/5A	1
32	150/5A	1
40	160/5A	1
50	200/5A	1
50	250/5A	1
60	300/5A	1
80	400/5A	1
100	500/5A	10
120	600/5A	10
150	750/5A	10
160	800/5A	10
200	1000/5A	10
240	1200/5A	10
250	1250/5A	10
300	1500/5A	10
320	1600/5A	10
400	2000/5A	10
500	2500/5A	10
600	3000/5A	10
640	3200/5A	10
800	4000/5A	10
1000	5000/5A	10

Connection Diagram

For Self Powered type.



Meter Dimensions & Installation cut out



Ordering Information:

- 1) Model Type: Dual KWh Meter with / without RS 485 Communication port.
- 2) Input Voltage
- 3) Input Current