

DC Energy Meter

Instrument Division DC Energy meter 96 x 96 mm size is suitable to measure the DC energy of 4 individuals channels with suitable enable/disable facility.

Data sheet No. : DC KWH /10/11



Principle

DC energy Measurement is based on the principle of integration of DC power with time incorporating State of art microprocessor based design

Features:

- 1 Programmable & password protected for the tampering protection. To widen the usage, different shunt ratio can be programmed directly through switch
- 2 Programmable shunt ratio
- 3 Programmable device ID and selectable baudrate.
- 4 EEPROM based memory for Energy data retention.
- 5 RS 485 Modbus communication.
- 6 Measure DC energy of four channels simultaneously.
- 7 Energy displayed on 16 X 2 Alphanumeric character LCD display with backlit.

Auxiliary Power Supply:

Self Powered

Application:

The DC energy meter have been designed for industrial & Telecom applications purpose.

Specifications:

Electrical

Input Voltage
Input Current
Accuracy

40V to 220 V DC
4 channels through external Shunt (75 mV).
±1.0% of the reading for DC energy & power.
±1.0% of full scale for DC current & voltage..

Resolution 0.001KWH for DC energy. 0.1V for Voltage 0.1A for Current

Insulation resistance
Dielectric Test
Power consumption

0.1KW for power
> 20M ohms at 500V DC.
2KV RMS for 1 minute.
2 VA at 48V DC

LCD Display

16 * 2 LCD

Black characters with yellow backlit.

Environmental

Humidity Operating temparature Storage temparature

Mechanical

Mounting Dimention Weight Termination ≤ 95 % RH Non condensing.

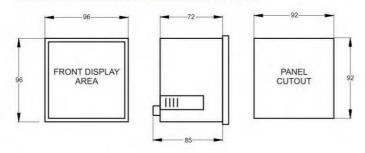
0°C to +60°C 20°C to +70°C

Flush mounting with side clamps. 96 X 96 X 75 mm

8 pin VH connector for current input. 2 pin VH connector for V input.

3 pin VH connector for RS-485 communication.

Meter Dimension & Installation cut out



Connection Diagram

