



# PREPAID ENERGY METER

IPM 05 connect 5 different households using a single meter but measuring usage of individuals at same time.

## APPLICATIONS

- Micro grid
- Home utility
- Shops
- Generator supply



IPM 05 is microcontroller based prepaid energy meter which is especially designed for solar ac micro grids. It has 5 channels and each of them can be programmed separately for desired watt hour credit, watt limit and number of days .Multi channel design allows to connect 5 different households using a single meter but measuring usage of individuals at same time.

Watt hours can be credited to individual channels. each channel can be programmed for different watt-hour credit. once the credit is finish it auto cuts the supply to that house. IPM05 has a built in RTC so one can program it to allow usages of electricity supply for fixed number of days.Watt limit can be set so no one can use above the permissible watt limit.current usages are monitored and if overload at any channel is detected it trips the supply for that channel.IMP05 is field programmable and can easily programmed by using a mobile phone or a hand held terminal. each channel can be programmed individually for requested watt hours,watt limit or number of days.As skilled manpower is one of the challenge in microgrid operation,no skilled man power is required to recharge the meter,any one who is familier with android phones and apps can do recharge and diagnostics of the network.

## Specification

- Operating voltage Range..... 150 – 260 Volts AC.
- Nominal Operating Voltage... 230V AC
- Power Consumption.....15 watt
- Max load per channels..... 500 watts
- accuracy ..... Watt Hour <5%
  - ..... Load Limit <5%
  - ..... RTC < 5 min per month drift.
- Protection..... Short circuit by 3 Amp fuse.
- Communication Range..... < 10 meters.
- Programable Features..... KWatt Hour Credit
  - .....Max Permissible Load in watts
  - .....Use for programmed No. of days.

## Charging method



### BluePlug

Meters can be charged with the help of andorid phone and app.