

Prepaid Energy Meter - Single Phase



Power Accent gives to the world, a smart card based prepaid energy meter.

High-tech, user friendly and tamper proof, it avoids power thefts, guards against over consumption, assists Utilities in effective and efficient revenue management.

System comes with

- Crypto-encrypted RF Smart card
- Vending Station Software
- Central Control Server

Features

- 4 Level Programmable tariff
- Maximum credit stored 10,000 kWh
- 2 wire Symmetry
- Mechanical and Electrical Anti-tamper
- Glass filled polycarbonate and fire retardent base

Smart Card

- Crypto-Encrypted RF smart card for charging energy purchases.
- Meter specific identification code for smart card
- Two way communication between the Meter and Vending Station
- Transfers relevant parameters to the Vending Station and Meter

Cumulative Reading

- Consolidates and denotes the cumulative reading for every month

Maximum Demand

- Integrated to display Maximum Demand every 30 minutes

Alarm Indication

- Low Credit Indicator - Audible alarm with LED Flash
- Exhausted Credit-Audible alarm with LED Flash before cutting of power

Power Disconnection

- When power over drawn beyond pre determined emergency credit limit
- Only during working hours of the Vending Station

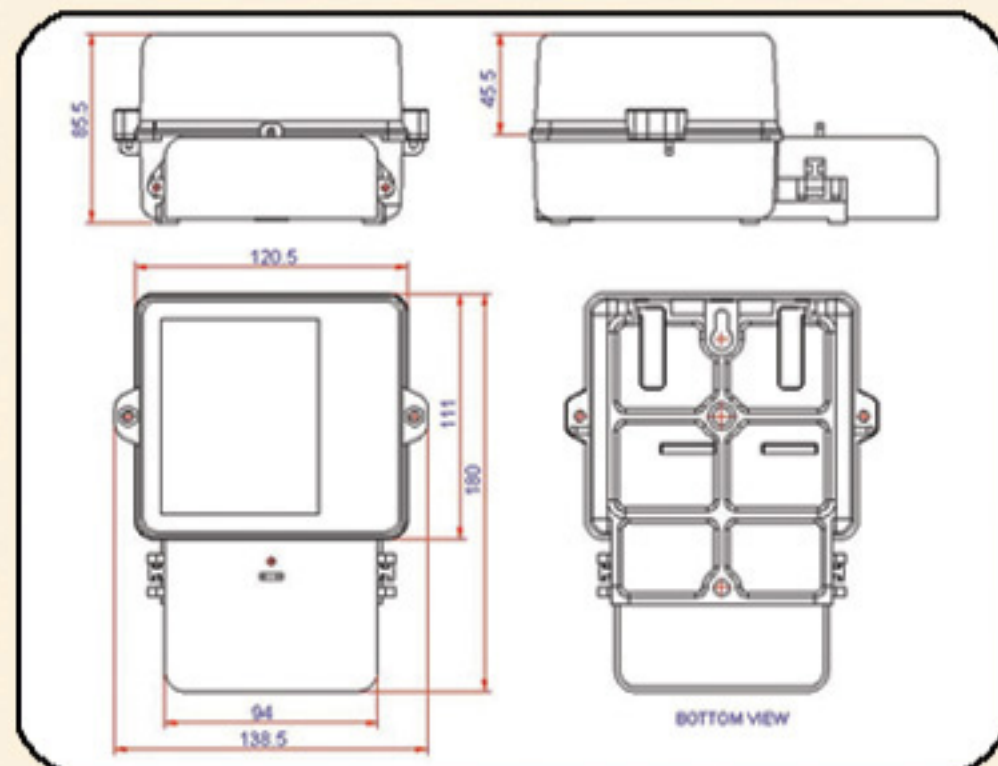
Display Parameters

- Available Credit for 30 Seconds
- Cumulative Reading for 10 Seconds
- Maximum Demand for 10 seconds
- Incorrect Insertion of Card
- "No Credit"

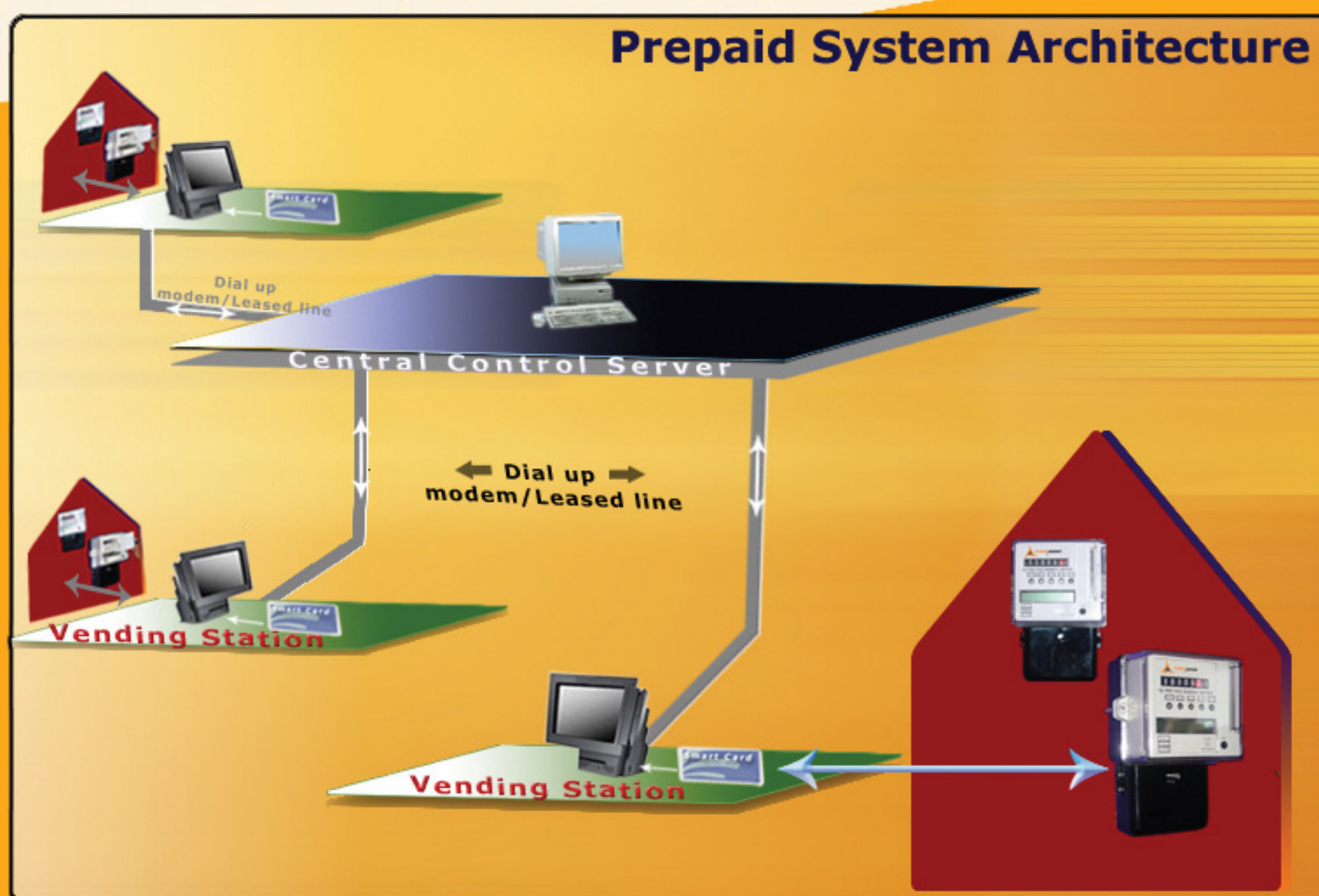
Specifications

Connection	- Single phase, 2 wire
Voltage	- 220 - 240 V
Current Range	- Ib [Base Current] Options - 5,10,20,40 A - Imax [Maximum Current] Options - 40,60,80,100 A
Frequency	- 50 Hz - Tolerance $\pm 2\%$
Measurement	- Active Energy to IEC 61036 Class 1
Temperature Range	- -20°C to 55°C
Insulation	- 5KV
Connection to Network	- Via Current Transformer
Protection Type	- IP54
Install Position	- Indoor
Relative Humidity	- 95% at 45°C non condensing

Dimension and fixing



Prepaid System Architecture



Vending Station Solution

- Works on Windows™ based software
- Recharges the smart card
- Attached with the Biometric Sensor [Hardware Integrated to the PC] to prevent unauthorised system access
- Logs customer complaints and transfers to the Central Control Server
- Alerts the operator against tamper
- Facilitates payment through credit card [Optional]

Central Control Server

- Ensures automated data backup
- Generates customised and generic reports
- Permits dynamic data synchronisation and management