

Prepaid Energy Meter - 3 Phase

PEP 73



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 Smart card
- Vending Station Software
- Central Control Server.

Features

- 4 Level Programmable tariff
- Maximum credit stored 100,000 kWh
- 4 wire Symmetry
- Mechanical and Electrical Anti-tamper
- Glass filled polycarbonate and fire retardent base

Smart Card

- Crypto-Encrypted 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

Display Parameters

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

Alarm Indication

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

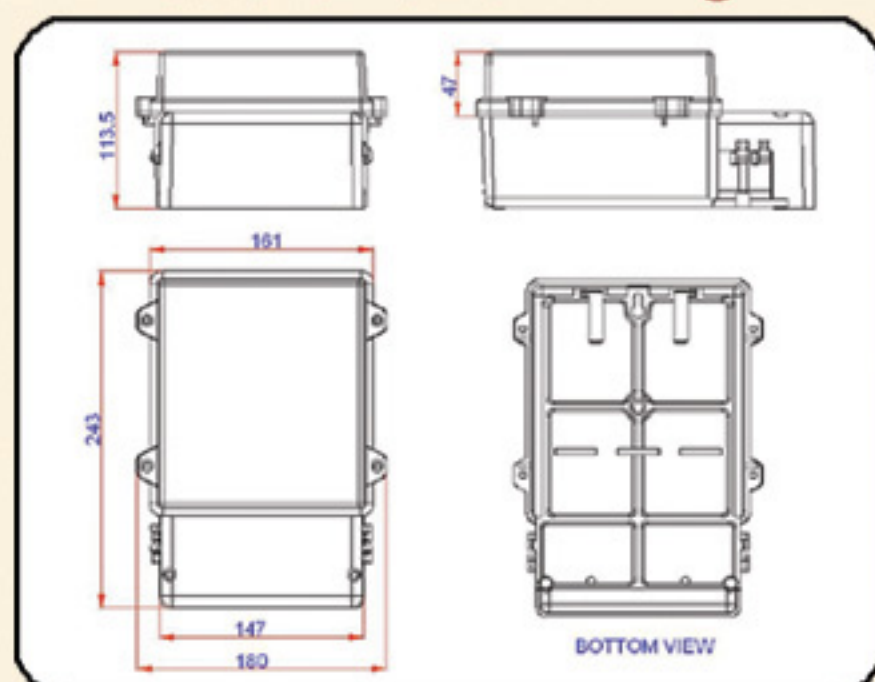
Power Disconnection

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

Specifications

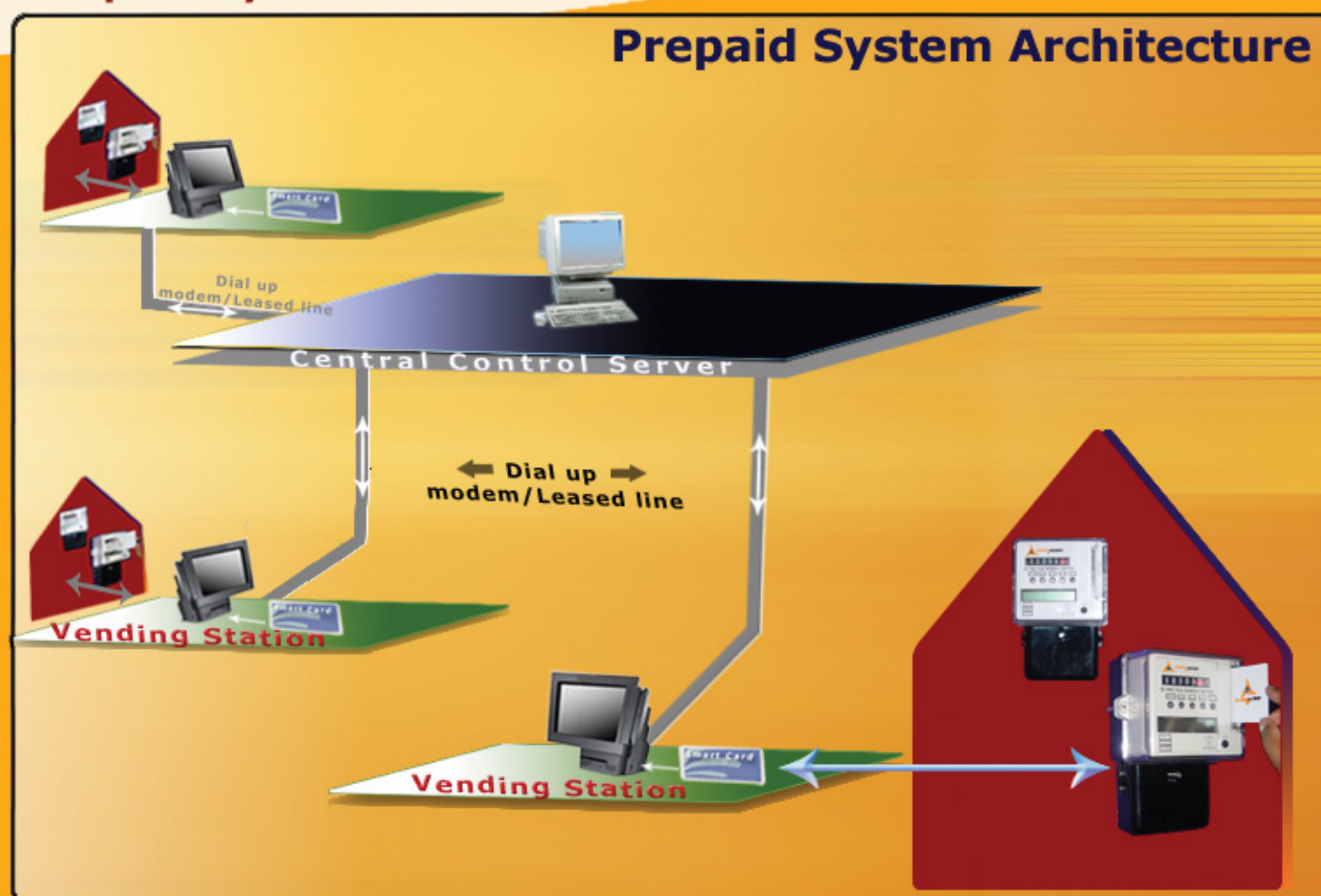
Connection	-	3phase, 4 wire
Voltage Range	-	3X220/380V ;3x240/415 V
Current Range	-	Ib [Base Current] Options - 5,10,20,40 A
	-	Imax [Maximum Current] Options - 40,60,80,100 A
Frequency	-	50 Hz
	-	Tolerance \pm 2%
Measurement	-	Active Energy to IEC 62053-21 Class 1
	-	Reactive Energy to IEC 62053-23 Class 1
Temperature Range	-	-20 ^o C to 55 ^o C
Insulation	-	5KV
Connection to Network	-	Via Current Transformer
Protection Type	-	IP54
Install Position	-	Indoor
Relative Humidity	-	95% at 45 ^o C non condensing

Dimension and fixing



Prepaid System Architecture

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