

**Ordering Information**

CAT. Code	Description
PSPB15231110000C01	Single Phase 10-60A Prepaid meter with CIU & STTD
PTPB15211300000C01	Three Phase 10-60A Prepaid meter with CIU & STTD
PSDB15261110000C00	Single Phase Dual Source 10-60A Prepaid meter with CIU & STTD
PTDB15211300000C00	Three Phase Dual Source 10-60A Prepaid meter with CIU & STTD

**Dimensions**

Single Phase Meter  
L x W x H = 206 x 149 x 93mm

Three Phase Meter  
L x W x H = 290 x 189 x 105mm

All the dimension are in mm

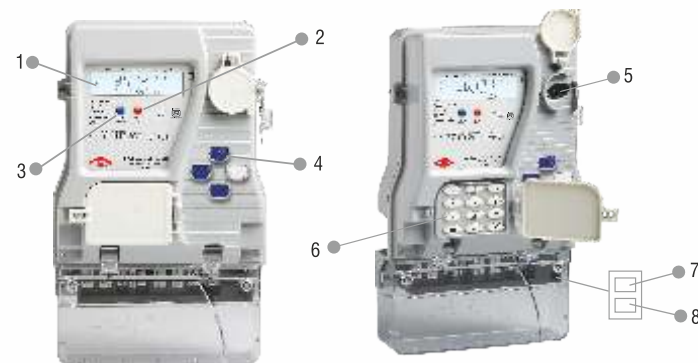
**The Single Phase Prepaid Meter is Provided with the following**

1. LCD type display
2. LED for Credit Status indication
3. Calibration LED
4. Push Button for Scroll
5. Numeric Keypad for Token Entry
6. CIU (Customer Interface Unit) Connector
7. RS 232 Communication



**The Three Phase Prepaid Meter is Provided with the following**

1. LCD type display
2. LED for Credit Status indication
3. Calibration LED
4. Push Button for Scroll
5. Optical Port
6. RS 232 hard wired port
7. Numeric Keypad for Token Entry
8. RS 485 for connecting the CIU



**Display Parameters**

**Auto Scroll Mode:-**

- Cumulative Energy in kWh Utility with Source status
- Cumulative Energy in kVAh Utility with Source status
- Cumulative Energy in kWh DG with Source status
- Cumulative Energy in kVAh DG with Source status
- Instantaneous Credit Balance with Source status

**Push Button Mode:-**

- LCD Segment Check
- Meter Serial Number
- Real Date & Time with week day
- R Phase Instantaneous voltage
- Y Phase Instantaneous voltage
- B Phase Instantaneous voltage
- R Phase Instantaneous Current
- Y Phase Instantaneous Current
- B Phase Instantaneous Current
- Instantaneous System Power Factor
- Maximum Demand in kW Utility
- Maximum Demand Date & Time Utility
- Maximum Demand in kW DG
- Maximum Demand Date & Time DG
- Last Month Cumulative Energy in kWh with Consumed Amount Utility
- Last Month Cumulative Energy in kWh with Consumed Amount DG
- Last Month Maximum Demand in kW Utility
- Last Month Maximum Demand Date & Time Utility
- Last Month Maximum Demand in kW DG
- Last Month Maximum Demand Date & Time DG
- Cover Open Status (If Cover Closed)
- High Resolution kWh Utility
- High Resolution kVAh Utility
- High Resolution kWh DG
- High Resolution kVAh DG

\*Displays Parameter varies with respect to model selected

\* Happy Hours : These hours are predefined in the meters during which the supply would not be disconnected. This is based upon the working hours of the utility and the weekly / national pre-notified holidays.

**Keypad Mode**

This displays the various attributes / parameters pertaining to Token Entries, Tariff structure, Present Load and Cost of this Load and Total Amount Vended in the meter. These are displayed by pressing the predefined keys on the keypad ( for details, please refer the operation manual of the meter)

HEP/PEM/90/17

# Prepaid Energy Meter

Single Phase & Three Phase

Available in Both Single Source as Well as Dual Source



For Residential & Commercial Use

HPL offers Prepayment Solutions for Power Utilities with Automatic Meter Reading Solutions



**HPL Electric & Power Ltd**

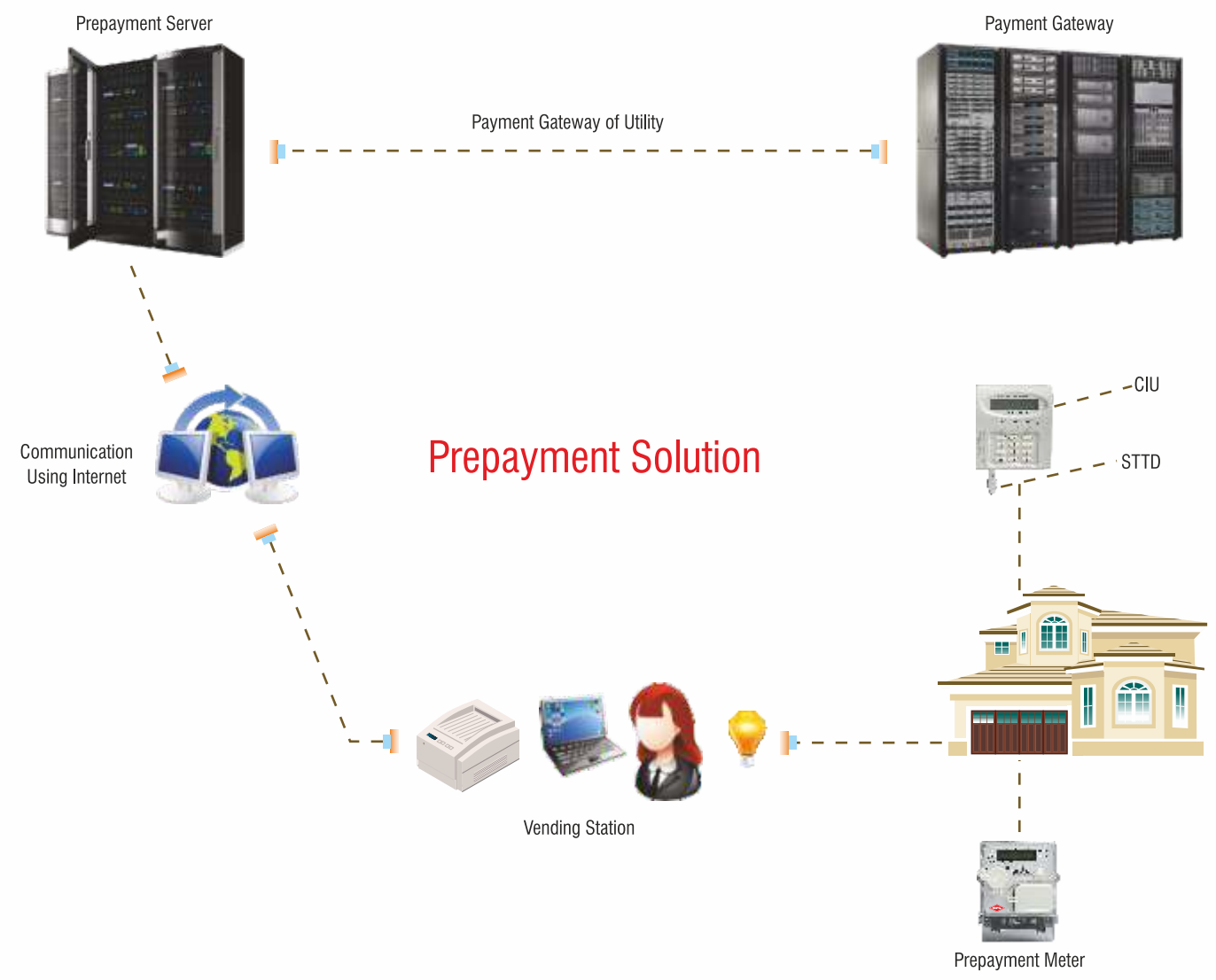
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18004190198**

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• This document is not a contract • As part of our continuous improvement processes the specifications are subject to change without prior notice





# WIN – WIN

Situation for both Consumers as well as Utilities

## Features

- Rating available: Single Phase Two Wire 10-60A & Three Phase Four Wire 10-60A.
- Confirms to the requirement of IS:15884.
- Meter has BIS marking as per IS:15884
- Load will be disconnected in case the credit limit becomes Zero or the current/Load exceeds the defined load limit.
  - Two latch relays are provided in single phase meter for reconnection/ disconnection of load.
  - Three latch relays are provided in three phase meter for reconnection / disconnection of load.
- User friendly key pad and display.
- Buzzer to give alarm in case of low credit / overload.
- Bi-coloured LED for low credit warning.
- Data download through Optical Port / Hard Wired Port for .
  - a. Tamper events b. Load survey data c. Billing Data d. Prepaid Related Data

## Components

- Required by Customer:
- The system being offered is a key-pad based system comprises of the following:
- Keypad based Pre-Payment Meter
  - Consumer Interface Unit (CIU)
  - Soft Token Transfer Device (STTD)-Optional
  - Web based Vending System
    - a. Server with Software for Vending Operations.
    - b. Vending Station with Printer and internet connection
    - c. Mobile Application (Optional) for bill generation.
- Infrastructure Required by Utilities:
1. Space for Housing the server at a Central Location with high Speed Internet connection
  2. UPS and Printer for the server
  3. Software to be loaded on the server
  4. Payment Gateway - In case the Utility allows online transactions to their consumers.
  5. Vending Stations either operated by the Utilities or Outsourced.

## Anti Tamper Features

- Both the Single Phase & Three Phase Meter are provided with following anti tamper features
  - Immunity to HF / HV - 35kV discharge
  - Immunity to External Magnetic Influences
  - Provided with cover open tamper Logging
- All anti tamper features are provided as per Indian standards

## ADVANTAGES

### Benefits to Consumers

- Pay as you go
- No need to stand in queue
- No Surprising bills
- No bill disputes
- Help Customer Contribute towards energy Conservation
- Consumers can adjust their consumptions based upon their ability to pay

### Benefits to Utilities

- Upfront payment for electricity
- Lower Overheads
- No billing hassles
- Tamper and fraud detection
- Money and time based Load Connection and disconnection
- Load / Demand Control
- Utilities can Implement a System of rewards
- Meter Readers / Meter bill delivery not required

## How It Works

1. Consumer Visits the Vending Station
2. Vending Station attendant logs in the pre-payment server and access the consumer account.
3. Utility payment gateway is accessed by paying through Cash or Credit / Debit Card.
4. If transaction cleared, credit Token Generated.
5. Token printed / Soft Token transferred on STTD and handed over to consumer.
6. Consumer returns home and recharges the meter

