Single Phase Prepayment Meter

Liberty

Consumer’s Manual

(Document Ver- XX Rev. YY)
Safety Instructions

Please take note of the warning and caution icons presented in this manual as follows:

Possible Electric Hazard

This icon indicates the existence of dangerous electrical voltage. These operations should only be performed by qualified personnel.

Attention

This icon warns the user to take special precautions whilst performing an operation. The procedure must be followed as described in the manual.

Deliverable

1. Liberty-Single Phase Meter
2. Liberty User Manual (This document)
3. Freedom Unit for Remote keypad operation- optional

Important

Whilst every effort has been made in the development of the Liberty meter and its associated documentation, the possibility of error always remains. Secure Meters undertakes to correct such errors, wherever possible, and requests feedback from users in this regard.

Secure Meters is not responsible for any losses arising from the use of the Liberty, and its warranties are limited solely to the equipment supplied.
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Liberty—Prepayment Metering Solution

Liberty series of prepayment meters will change the way you consume and purchase electricity. It enables you to purchase electricity in advance before you actually consume it. A vending token, provided for the advance payment, is entered into the meter to enable the equivalent energy consumption.

The meter also keeps a record of your energy consumption, and based on your consumption pattern, it can predict the number of days you can consume the remaining amount available in the meter. This helps you to plan your budget for the electricity consumption.

In order to avoid a zero balance, it is possible to set an alarm to inform you when the balance amount falls below a marginal limit.

Features

The meter has the following advanced features:

- Display of current and maximum load.
- Display of the balance amount on the meter screen.
- Display of the previous Consumption values such as last day, last week and previous months.
- Daily deduction of the fixed charges to avoid a major deduction on a fixed date.
- Ability to refund the balance amount.
- Ability to alter the alarm limit of the remaining balance.
- Tariff update using the vending code.
- Optional Freedom unit for remote keyboard operations and alarm indication.
Precautions & Safety Practices

1. Energy meters are always located as electrically hazardous areas. To minimise the risk of electrical shock, avoid any contact with loose or exposed electrical connections. If a loose/exposed connection is observed near the installation, immediately call a qualified electrician.

2. An optional Freedom unit is available for the remote keyboard operations. In case this unit is available, it is preferred to perform all the key-board operations using the Freedom unit.

3. Do not exceed the load limit beyond the range specified on the rating plate.

4. An alarm signal produced by the meter/Freedom unit warrants your attention. On hearing this, always take an appropriate action.

5. In order to prevent the tampering, the meter is sealed after the installation. Inappropriate handling of the seal may cause damage which may lead to the impression of tampering.

6. Refer to the "Liberty Installation Guide" for all installation related issues.

General Specifications

General specifications for the Liberty are summarised below.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail / Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Physical</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>125.0 x 193.5 x 62.5 mm (W x H x D)</td>
</tr>
<tr>
<td>Enclosure</td>
<td>High Grade Engineering Plastic</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall Mounted</td>
</tr>
<tr>
<td>Terminal</td>
<td>Floating Cage Clamp Terminals</td>
</tr>
<tr>
<td>2 Electrical</td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>Two Wire P-N</td>
</tr>
<tr>
<td>Rated Voltage</td>
<td>220V (-40% to +20%)</td>
</tr>
<tr>
<td>Rated Current</td>
<td>5-30A, 10-60A or 20-80A</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz +/- 5%</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.5 Lag &lt;-&gt; Unity &lt;-&gt; 0.8 Lead</td>
</tr>
<tr>
<td>Protection</td>
<td>IP54 -IS:12063:529</td>
</tr>
<tr>
<td>Compliance</td>
<td>IS113779/CBIP-88</td>
</tr>
<tr>
<td>Calib. LED</td>
<td>High Intensity Red LED</td>
</tr>
<tr>
<td>3 Accuracy</td>
<td>Class 1.0</td>
</tr>
<tr>
<td>4 Communication</td>
<td>Port Optical, for diagnosis purpose only</td>
</tr>
<tr>
<td>6 Burden</td>
<td>Current Ckt.</td>
</tr>
<tr>
<td></td>
<td>Voltage Ckt.</td>
</tr>
</tbody>
</table>
Prepayment Metering with Liberty

In the prepayment metering system, a consumer must purchase electricity in advance before he actually consumes it. The utility or distribution company provides the consumer with a vending token for the amount paid. The token code is entered into the prepayment meter to allow the consumption of the equivalent energy. When the equivalent energy is consumed, additional tokens must be purchased.

The meter has an inbuilt On/Off switch which can automatically disconnect or reconnect the electricity supply according to the consumer’s remaining balance.

When a sufficient vending balance is available in the meter, “Account” status is displayed. In this mode, the supply is connected and the meter continuously deducts the energy charges, according to the current consumption and applied tariff. In this way, the balance in the meter reduces automatically.

When the balance amount falls below a marginal limit, a thirty seconds “alarm” signal is produced to warn the user. The consumer should acknowledge this alarm by pressing any key on the meter, otherwise the alarm is repeated at thirty minute intervals. The status of the meter in this condition is “Money Low”.

The consumer should purchase additional electricity tokens before the vending balance reaches a zero value. If this occurs, the alarm is repeated. If the original “Money Low” alarm was not acknowledged, the meter will switch Off the electricity supply. The meter status in this condition is “No Money”.

If your utility provides you with a friendly credit facility, you can still resume your supply by pressing any key on the meter. Electricity supply is continued until the friendly credit limit is exceeded, after which the supply is disconnected and the meter status is displayed as “No Credit”.

A special provision restricts the disconnection of the electricity supply to a “No Credit” meter during specific times called “Happy Hours”. During this period, “Emergency Credit” is facilitated. This period can vary from company to company according to their preferences.
Parts Description

1. **Rating Plate**: Use this to check the essential information about the meter such as model, meter type, accuracy class, voltage & current ratings, serial number etc.

2. **Meter Base, Front Cover**: Meter Base (enclosure) is made of a high grade fire resistant engineering plastic. Front cover is fastened to the meter base using the screws. Sealing arrangement is provided to prevent any tempering attempt.

3. **Sealable Screw for Front Cover**: Each of the two front cover screws has a transverse hole to allow a sealing arrangement.

4. **LCD Screen (LCD)**: LCD screen uses nine alphanumeric characters to display information such as the balance amount, load.

5. **Calibration LED**: The Calibration LED blinks according to the pulse weight of the meter. This is used for accuracy testing.
6. **Transparent Terminal Block Cover**: This cover protects the terminal connection from any tampering attempt. A transparent cover is provided that provides a visual inspection of the connections.

7. **Sealable Screws for Transparent Terminal Block Cover**: These sealable screws facilitate the sealing arrangement necessary after the installation in the field.

8. **Key-Pad**: Essential user interaction is provided with the key-pad having 12 Keys similar to a telephone instrument.

9. **Freedom Unit for Remote Operation**: When the meters are installed in a central control panel, an extended user interface can be provided by means of an optional Freedom unit. This unit remains connected to a remote Liberty meter using a four-wire telephone cable. The unit has a keypad and display similar to the Liberty meter allowing remote code entry. The unit also produce beep signal in sync with the meter.

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**LCD & Keypad Operations**

An LCD screen and keypad, similar to a telephone instrument, are provided to perform the following operations:

- To enter the vending codes and to view the previously entered vending codes.
- To set the alarm marginal balance limit.
- To view ABC codes.
- To view other information, such as the previous consumption, current load, tariff rates etc.

The LCD display will remain “Off” if no key is pressed for two minutes. If a key is pressed under this condition, the display is invoked and displays a screen corresponding to the key pressed. If no key is pressed for some time, the LCD screen automatically displays the current status information. The screen will display one of the following screens, according to the current balance status:

- **ACCOUNT**
- **MONONEY LOW**
- **NOMONEY**
- **NOCREDIT**
- "Account" – sufficient vending balance is available i.e. greater than the marginal balance.
- "Money Low" – the balance is below the marginal limit and above zero.
- "No Money" – the balance is below zero.
- "No Credit" – the maximum credit limit has been exceeded.

The following display is shown after five seconds (two seconds in case of "Account" display).

![Display Example]

This display indicates the current applicable rate. In the above example, “R2” indicates applicable rate R2 which is Rs 3.50.

These two displays are shown alternatively for two minutes before the display is disabled. Meanwhile, if the user presses any key, the display changes according to the key pressed. Keys 0 to 9 are used to invoke a corresponding display sequence. The “*” key is used to start the code entry procedure. Once the code entry process commences, keys 0–9 are used for entering the corresponding digits. “#” key is used as enter key.

**Display Function Keys (0–9)**

Displayed information is logically grouped in ten separate sequences. (Each of these sequences displays one or more parameters on the screen. A parameter is shown with two or more consecutive displays. The first display shows the parameter tag or header and subsequent display/displays shows it’s value. Each of these sequences can be invoked by pressing the assigned key (0–9).

- Pressing a key invokes a corresponding sequence. The header/tag of the first parameter in the sequence is shown. Pressing the same key again shows the value of the parameter. If the parameter value requires more than one display, the next display also shows value on pressing the same key again. For some parameters, there is no separate screen for header and value.
- Pressing the same key again shows the next parameter in the sequence and so on. Once all the parameters of the sequence are displayed, the first parameter is shown again to repeat the cycle.

- If no key is pressed when a header is being displayed, the value of the parameter is shown automatically after two seconds. If no key is pressed when a value is being displayed, the status information screen is displayed automatically after some time.

- If any other key is pressed during one sequence is being shown, display sequence corresponding to the new key is shown.

**Special Keys (\* and #)**

Pressing the "\*" key initiates the code entry process. When a code is being entered, you can also use the "\*" key to delete the last entered digit.

Once a code is entered, the "#" key is used as an "Enter" key. It can also be used as "backspace" key when a particular display sequence is being executed.

**Display Sequences**

As described in the section “Display Function Keys (0-9)” on the previous page, information is displayed using ten separate groups identified as display sequences. These sequences are invoked by pressing the corresponding numeric key. The following section gives details about these display sequences.

**Days Left - Key “1”**

Based on the previous week’s consumption, the meter can predict the number of days in which you will consume the electricity balance available. Press “1” to activate this sequence.
- The number of expected days is shown in first three screens. For days greater than 99, third screen is displayed.

- “No Credit” is shown if the maximum credit limit has been exceeded.

- “No Data” is shown if the previous week’s consumption data is not available.

Previous Consumption - Key “2”

This sequence shows previous consumption data (last day, last week and previous months). It can be invoked by pressing key “2”.

Header for Previous Day Consumption

Value of Previous Day Consumption
Rs. 33
Header for Previous Week Consumption

Value of Previous Week Consumption Rs. 133

Header for Last Month Consumption

Value of Last Month Consumption Rs. 2133

Previous Month Consumption July Rs. 233
Previous Month Consumption
June Rs.333

Continuing to press key “2” will display the previous twelve months consumption one by one in reverse chronological order.

Liberty-3P supports slab-wise as well as TOD tariff. To support these special tariff structures, eight rate register are provided. At any point of time, money deduction on the account of energy consumption is according to the current applicable rate.

**Rate Information - Key “3”**

**Note:** See attached annexure for detail of slabs limit or time zone definition and rates applicable.

**For slab-wise tariff:** Rate 1 is applicable for the energy consumed below the first slab limit. As soon as the energy consumption exceeds the slab one kWh limit, Slab 2 is applicable. Now, deduction is according to Rate 2 until consumption exceeds the slab 2 maximum limit. A maximum of eight slabs are possible, so the rates applicable. Slabs are reset after a slab reset period.

**For TOD/STOD based tariff:** Applicable rate is determined according to the current time-zone.

Using key “3”, you can view Rate-wise consumption and the price applicable for each Rate/slab.

Header for Slab 1 / Rate 1 Price

Slab 1/ Rate 1 Price = Rs.10.01

OR WAIT FOR 2 SEC
Header for Consumption in Slab 1 /Rate 1

Consumption in Slab 1/
Rate 2 is Rs.123

Header for Slab 2/ Rate 2 Price

Continuing to press key “3” will display Rate - wise prices & consumption of all the slabs
Price3, Price 4 and so-on.

Previous Code Information - Key “4”

Use key “4” to display the previously entered codes. This feature can be used to verify
whether a code was entered or not. A maximum of five codes are available.

Header for Code History

The first five digits of the last code entered are shown. “1A” indicates
that these are the first five digits of the last entered code
The next five digits of the last code entered are shown. “1B” indicates that these are the second five digits of the last entered code.

The next five digits of the last code entered are shown. “1C” indicates that these are the third five digits of the last entered code.

The next five digits of the last code entered are shown. “1D” indicates that these are the fourth five digits of the last entered code.

In this way, all five codes are shown “2A-2B-2C-2D”, “3A-3B-3C-3D” etc. If the last entered code was of 40/60/80 digits it is shown similar to the following— “2A-2B-2C-2D-2E-2F-2G-2H-2I-...”.

**AB Code Information – Key “5”**

This sequence shows an Authenticated Billing Code which is generated on the first day of every month (00:00 hours). This code is used by the utility to transfer information from your meter. This information can be collected by your service provider or they can call you for this. The total amount of energy consumed in the previous month is also shown.
First five digits
12345

Next five digits
24534

Next five digits
12132

Last five digits
13232

Header for Total cash of
last billing month

Total amount is
Rs. 3232
**Current Load – Key “6”**

This sequence enables you to view the current load in kW and the total hourly consumption with this load.

**Header for Current Load**

Current Load
is 4.00 kW

**Header for Load Cost per hour according to the current load**

According to the current load, per hour consumption is Rs 3.00

**Daily & Minimum Charges – Key “7”**

The “Daily” or “Standing” charge is deducted automatically irrespective of consumption. This is deducted at 7:00 Hours. This rate is shown on meter display using key 7.

If a user does not consume sufficient energy amount during a billing period (i.e. total energy amount is less than “Minimum Charge”), “Minimum Charge” amount will be deducted in lieu of the actual deducted energy amount. This “Minimum Charge” is also shown with key 7.
Header for Daily Standing Charges

Rs 1.00 per day

Header for Minimum Charges

Rs 5100.00 for a billing period

**Maximum Demand—Key “8”**

This sequence displays the maximum demand information. Maximum demand is calculated on monthly basis. Option is also available for daily maximum demand which is shown for the previous day. The date & time of maximum demand are also displayed. You can use key “8” to display this sequence.
Header for Maximum Demand

Maximum Demand is 4.25 kW

Header for MD Occurrence Time

MD Occurrence Time is 4:00 hours

Header for MD Occurrence Date

MD Occurrence Date is 02/10/04
Total Energy— Key “9”

This sequence shows energy values in two different formats—normal and high resolution.

Header for Energy Register

Total energy logged till date is 12345 kWh

KWH UNIT

OR WAIT FOR 2 SEC

Header for High Resolution Energy Display

Energy Register Value is shown in high resolution mode.

Note that the most significant digit is not displayed. The actual Energy Register Value is 12345.3344

Test & Time— Key “0”

This key sequence displays the date and time on the meter. It can also be used to test the LCD screen. When a money refund transaction is performed, this sequence displays a twenty digit refund code. More information can be found in the section “Retain Credit Refund Transaction” on page 27.
LCD Test Screen. All the segments are illuminated.

"No code" is displayed if no "Retain Credit" transaction is performed.

Header for Meter Current Time

Meter Current Time is 12:45 Hours

Meter Date Header
Token Entry

If optional Freedom unit is attached, you should always prefer keyboard operations with this

In order to increase the balance in your meter you must enter a money token. This token is provided to you for the money paid. Generally, this is a twenty digit code.

You can enter a code by pressing “*” followed by the entry of each digit one by one. For example - to enter code 23422-2344-12344, perform following key pressing sequence

Attention

Repeated entry of wrong code may lock the keyboard
Once five digits are entered, a "-" is automatically entered
Screen shifts to the left automatically

A “-“ is entered automatically

You can enter all the digits of your code similarly. Once all the digits are entered, press “#” or wait for twenty seconds to process the code. Once the code is processed, the meter displays the results of your code entry.

Wrong number of digits in code

Wait for 2 Seconds

Rs. 3000 added to your account

(One of the four screens may be displayed according the wrong code entered)
If the correct code is entered, the token amount is automatically added to your account. If you have omitted one or more digits in the code, an “Error” message is displayed. In this case you should re-enter the code. If the entered code is rejected, a “beep” is produced and one of the four reasons will be displayed as shown above.

- "Duplicate" is displayed if the code has previously been entered.
- "Credit Hi" is displayed if the total amount exceeds the maximum amount permissible. In this case you can re-enter the code once your balance has been reduced.
- "Incorrect" is displayed if the code is incorrect or not intended for this meter.
- "Wrong Tar" is displayed if a previously purchased token code has not yet been entered. Either enter the missed code or ask for the assistance from your service provider.

**Setting Alarm Limit**

You can set the marginal alarm limit allowed before a “Money Low” status is shown. To set this, you must enter an eleven digit code as follows:

“00000-0XXXX-7”, where “XXXX” stands for alarm marginal amount.

For example to set your alarm limit at Rs.300, you should enter the code “00000-0300-7”.

You can enter a code as described in the section “Token Entry".
Retain Credit Refund Transaction

For various reasons, such as moving from one premise to another, you may need to withdraw the balance amount from your meter. To do this, perform the following steps:

1. Go to your nearest vending franchisee and ask for a "Refund Request" token. Please also specify the balance amount you need in the meter after refund.

2. Enter the "Refund Request" token into the meter, as described in the section "Token Entry". This token should be accepted. If you do not have the sufficient money to withdraw, an "error" message will be displayed.

3. Once a "Refund Request" token is processed by the meter, a "Money Refund" Code is generated with encrypted information regarding the refund amount. This twenty digit code is displayed using the Key "0" sequence as described the following section. Note down this code.

4. Deliver this "Money Refund Code" to a vending franchisee, who in turn will refund the balance amount.

Viewing Refund Token

Once a "Refund Request" token has been entered and processed, the "Money Refund Code" is displayed in Key "0" sequence. To display this, press "0".

Header for Refund Code
First five digits of Money Refund Code “22413”

Next five digits of Money Refund Code “22413-12344”

Next five digits of Money Refund Code “22413-12344-34234”

Last five digits of Money Refund Code “22413-12344-34234-34323”

Listen to “Alarm” Signals

Alarm signals produced by the meter or Freedom unit indicate the following conditions:

- When the balance amount falls below the marginal balance i.e. the meter status switches from “Account” to “Money Low”. An alarm is generated for thirty seconds and the supply is disconnected.
If optional Freedom unit is attached, you should always prefer keyboard operations with this.

Press any key on the meter to reconnect the electricity supply. If you do not acknowledge this, the supply will remain disconnected and an alarm signal is generated at thirty minute intervals.

- When the balance amount falls below zero i.e. meter status switches from “Money Low” to “No Money”. An alarm is generated for thirty seconds and supply is disconnected. Press any key on the meter to resume the electricity supply. If you do not acknowledge this, the supply remains disconnected and an alarm signal is generated at thirty minute intervals.

- When the balance amount falls below zero i.e. meter status switches from “No Money” to “No Credit”. An alarm is generated for thirty seconds. You must acknowledge this by pressing any key. If you do not acknowledge this, the supply remains disconnected and an alarm signal is generated at thirty minute intervals.

If a meter detects “Over-Current Conditions”, an alarm is generated for thirty seconds and supply is also disconnected. Reduce your load and press any key to resume the electricity supply. If you do not acknowledge this, the supply remains disconnected and an alarm signal is generated at thirty minute intervals.
Frequently Asked Questions

What is a vending franchisee?

A vending franchisee is an authorised outlet or electricity utility. This may be a kiosk, cyber café or shop which provides the vending tokens when you purchase electricity.

How do I purchase an Electricity Token.

Visit your nearest vending franchisee and in addition to the money, you must also provide your meter serial number and consumer number.

What do I do if I loose a token?

Ask your nearest vending franchisee for the lost token code number. He should provide it to you.

If I loose a token, can another person use it in their meter?

No, all tokens are meter specific and cannot be used for a meter other than the target meter.

What is an Authenticated Billing Code? Is there any harm to communicate it on telephone call?

Authenticated Billing Code keeps status information about your meter and there is no harm in communicating it. Moreover, communicating it by telephone preserves your privacy at home.

When I add a new token code into the meter, the balance account does not increase by the paid amount. Where is the difference?

This difference is service tax which some utilities may deduct directly.
Annexure (Tariff Details)

Tariff details given below are subjected to change. Please call local helpline for more details.

<table>
<thead>
<tr>
<th>Tariff Spec</th>
<th>Detail / Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Happy Hours</td>
<td>Normal Days 00:00-08:00 Hrs, 21:00-24:00 Hrs</td>
</tr>
<tr>
<td></td>
<td>Sundays 00:00-24:00 Hrs</td>
</tr>
<tr>
<td></td>
<td>Holidays 00:00-24:00 Hrs</td>
</tr>
<tr>
<td>2 List of Holidays</td>
<td>26/1,15/8,2/10,25/12 and declared festival days</td>
</tr>
<tr>
<td>3 Slab Detail</td>
<td>From 1-8</td>
</tr>
<tr>
<td></td>
<td>00-100 Unit Rs.</td>
</tr>
<tr>
<td></td>
<td>101-200 Unit</td>
</tr>
<tr>
<td></td>
<td>200-300 Unit</td>
</tr>
<tr>
<td>4 Standing Charges</td>
<td>Rs.02.00  Daily at 07:00 Hrs</td>
</tr>
<tr>
<td>5 Minimum Charges</td>
<td>Rs.00.00  Monthly at 00:00 Hrs of 1st day</td>
</tr>
<tr>
<td>6 Load Limit</td>
<td></td>
</tr>
<tr>
<td>7 Max. Balance</td>
<td>Rs.5000.00  Token not accepted above this</td>
</tr>
<tr>
<td>8 Service Taxes</td>
<td>@10.2%  Deducted on purchase or runtime</td>
</tr>
</tbody>
</table>
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