

Liberty 1P

Single phase prepaid electricity meter



Secure, flexible and tamper proof

Liberty 1P is a meter for smart prepayment and managed credit applications. The meter maintains its own energy account and supports multi-rate time of use or slab tariffs. It has a social non-disconnection facility (friendly credit) which prevents disconnection during the night or on public holidays. The meter displays actual and historical information on consumption and cost of consumption. This allows consumers to see how much energy they are using and how much it costs. In addition the meter displays credit remaining and can estimate on demand how long the remaining credit will last based on the current rate of consumption. The meter and its associated system has built in features to counter fraudulent customers and reduce revenue losses.

Application

- Domestic prepayment
- Prepayment for small and medium enterprises (SME)
- Landlord/tenant prepayment for residential and office complexes

Benefits

- No physical vending tokens (keys or cards) required for vending significantly reducing infrastructure costs
- No disconnections overnight or at weekends resulting in better acceptance of the solution by customers and a reduced need for vending station support
- Reduced financial losses through recovery of debt owed and no additional debt accrued
- Increased customer satisfaction and retention through increased visibility of consumption and rate of spending
- Maximum flexibility through flexible tariffs and debt recovery
- Can assist in reducing energy consumption and associated carbon dioxide emissions



Features

- Displays electricity usage in money terms
- Support for slab or time of use tariffs with up to 4 rates
- Emergency credit facility to allow consumers to stay connected after their credit has run out for a limited time to give them an opportunity to buy a new credit token
- Friendly credit facility to prevent disconnection during unsocial hours – no need to keep vending stations open 24/7
- Tariffs can be updated sent to the meters using customer's cash token
- Vending system supports debt recovery
- Meter supports overload protection and load limiting
- Option for freedom (remote keypad/display unit)
- Provides historical data, enabling comparisons such as 'this month against last month'



Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	1-phase 2-wire
Voltage range	240 V (L-N), - 20% to +15%
Current range	10-60 A, 20- 80A, 20-100 A
Accuracy	Class 1.0
Mains frequency	50 Hz \pm 5%
Burden	As per relevant standards

Compliance

Standards	IS 13779, IEC 62055-31, IEC 62053-21
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Mechanical

Dimensions (W x H x D)	125 x 193 x 48 mm (with extended terminal cover)
Enclosure	Engineering plastic

Environmental

Ingress protection	IP 51
Temperature	10 °C to +60 °C (operating) -25 °C to +70 °C (storage)
Humidity	95% non-condensing

Features

Tariff	Up to 4 rates (slab or time-of-use)
Maximum demand	Maximum demand register with configurable automatic reset
Load survey	30 days single parameter with 30-minute integration period
Communication	Optical 1107 port for local communication RJ-11 port under terminal cover for in-home display

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