

Liberty 150

Single phase prepaid meter



Pay as you go
(PAYG)



Display in
monetary terms



In-home display
with bluetooth

Know how much you are paying, reliable and secure

Liberty 150 is an intelligent single-phase prepayment energy meter that provides real-time and historical information on consumption and accounting. It supports a wide range of tariff facilities.

The interactive in-home display (IHD) combines convenience with flexibility by enabling key transactions such as token transfer, without the need of directly interacting with the meter. The IHD device has an inbuilt bluetooth functionality that allows it to receive the vend token from a mobile application. This information is later communicated by the IHD to the meter using a wired connection.

Liberty 150 is supported by a web-based vending system that is highly secure, flexible and easy to integrate with utility and payment service provider's systems.



Application

- Domestic metering
- Commercial metering
- Temporary connections
- Government establishments

Benefits

- Utility
 - Reduced overheads - no need for costly and problematic monthly billing
 - Improved revenue - receive payment for energy before it is consumed
 - Effective and efficient load management, through load switch in the meter
 - Quick and simple tariff implementation at site
- Consumer
 - Electricity can be purchased according to need
 - Facilitates energy consumption monitoring and budgeting
 - No uncertainty about consumption and bill
 - No late payment or reconnection fees
 - Supports multiple vending options, for quick and easy purchasing

Features

- In-home display (IHD) enables transfer of token using a mobile app and view consumption in real time
- Two-line display on IHD guides the consumer through processes such as token entry
- 'Friendly credit' facility, ensuring no disconnections outside office hours
- Audible low-credit warning from the IHD prompts the consumer to 'top up'
- Emergency credit facility prevents disconnection if the consumer is unable to top-up in time
- Programmable 'high load' alert helps the consumer avoid disconnection due to overload



Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	1-phase 2-wire
Voltage range	240/230 V (L-N), - 40% to +30%
Current range	5-60 A or 10-100A*
Accuracy	Class 1.0 for active energy
Mains frequency	50 Hz
Display	Graphical, with green backlight

Compliance

Standards	IS 13779 and IS 15884, IEC 62055-31
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Mechanical

Dimensions (W x H x D)	148 x 208 x 71 mm (with extended terminal cover)
Weight	0.9 kg (approx.)
Enclosure	Engineering plastic
Sealing	2 sealable screws on main cover, 1 on optical port, 1 on terminal cover

Environmental

Ingress protection	IP 53
Temperature	-10 °C to 60 °C (operating) -25 °C to 80 °C (storage)
Humidity	95%, non-condensing

Features

Tariff	Up to 8 rates (slab or time-of-use)
Maximum demand registers	Active and apparent energy
Load survey	240 parameter-days (with 30-minute integration period)
Energy channels	7 energy channels, active and apparent by default, with others configurable
Histories	12 historical sets of values
Reading data	Details for all the energy charges for all 12 histories
Communication	Optical port for local communication RJ-11 port under terminal cover for in-home display

IHD specification

Standard (without bluetooth)	
Power supply	30 mA at 8 V, supplied by the meter
Standard	CE mark
Dimensions (W x H x D)	86 x 87 x 18 mm
Weight	80 g (approx.)
Enclosure	Engineering plastic

With bluetooth (optional*)

Power supply	50 mA at 8 V, supplied by the meter
Standard	CE mark
Dimensions (W x H x D)	86 x 87 x 18 mm
Weight	80 g (approx.)
Enclosure	Engineering plastic

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