

Liberty 310

Three 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 310 is a three-phase token-less smart meter for pay-as-you-go and managed credit applications. Encrypted vend codes are used to transfer credit between the online vending system and the meter. Liberty 310 maintains its own energy account, which supports multi-rate tariffs with features such as public holidays and 'friendly credit' periods.

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 310 is highly resistant to magnetic fields and electrostatic discharge (ESD), making it ideally suited to aggressive environments, particularly where revenue protection (RP) is a concern.



Application

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

Benefits

- Increased customer satisfaction and retention through provision of useful information
- Reduced call-out costs: no disconnections overnight or at weekends
- Reduced financial losses as consumers cannot accrue large debts
- Minimal infrastructure cost: no need for keys or cards for vending
- Maximum flexibility through flexible tariffs and debt recovery
- Assists in reducing energy consumption and associated carbon dioxide emissions

Features

- RJ-11 connection to the in-home display, powered by the meter
- Support for slab or time-of-use (TOD) tariffs with up to 8 rates
- Emergency credit facility to assist consumers manage their accounts
- Friendly credit facility to prevent disconnection during unsocial hours
- Vending system supports debt recovery and load limiting



Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	3-phase 4-wire
Voltage range	240 V (L-N), - 20% to +15%
Current range	20-80A & 10-100A*
Accuracy	Class 1.0
Mains frequency	50 Hz ± 5%
Burden	Voltage circuit: < 1.5 W, 3 VA Current circuit: < 1.0 VA

Compliance

Standards*	IEC 62055-31, IEC 62053-21, IEC 62052-11, IS 13779, IS 15884
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Mechanical

Dimensions (W x H x D)	175 x 290 x 130 mm (with extended terminal cover)
Weight	3 kg (approx.)
Enclosure	Engineering plastic
Sealing	3 sealable screws on main cover, 2 sealable screws on terminal cover

Environmental

Ingress protection	IP 53
Temperature	-10°C to +60°C (operating) -25°C to +70°C (storage)
Humidity	95% non-condensing

Features

Tariff	Up to 8 rates (slab or time-of-use)
Maximum demand	Active and apparent energy
Load survey	240 parameter/days with 30-minute integration period
Communication	PACT optical port for local communication RJ-11 port under terminal cover for in-home display

With bluetooth

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	80g (approx.)
Enclosure	Engineering plastic

* Standards compliance depend on product variant.

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