



Intuitive



Compact size
95x130x60mm



Interoperable
communication

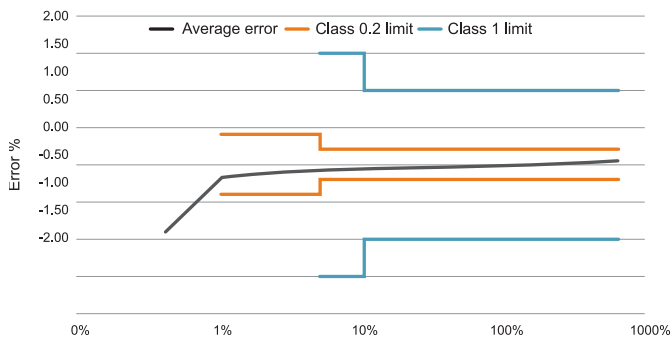
Compact, accurate and reliable

Saral is compact single phase direct connected intelligent credit meter for domestic, small commercial metering applications including net metering. Its enhanced revenue protection features coupled with inter-operable communication protocol makes it an ideal choice for distribution companies. The meter offers an accurate and reliable metering solution for measurement of electrical energy in a single phase 2-wire network and ensures revenue assurance.



Metrology

- Saral sets a benchmark for metrology in its class and exhibits stable metrological characteristics in diverse field conditions



Revenue protection

- Advanced anti-tamper capability—prevention, detection and deterrence
- Ensures revenue protection even in case of wrong connections such as reversal, interchange of earth and neutral, partial earthing
- Immune to abnormal magnetic interference and electric discharge
- Extensive forensic information for detection and analysis of tamper

End to end data security

- Security against manipulating meter data
- Authenticated billing and metering data with time stamp

Highlights

- Meter reading in absence of mains
- Logs energy even when connected using a single wire
- Load profile recording
- Registers historic billing data
- Records power factor
- Integrated base and cover
- Current and temperature profile to help analyse loose connections, attempts to burn

Cost of ownership

- Robust power supply designed to withstand harsh electrical and environmental conditions
- Designed to serve a long life in the field
- Meter is sealed for life
- Burden is low

Simplicity

- Smallest footprint in its class
- Compact and light weight
- User friendly display
- Intuitive display actuator without an opening

Benefits

- Advanced anti tamper capabilities—prevention, detection and deterrence
- Quality of supply information
- Peak and off-peak tariff management
- Stringent ingress protection/outdoor
- Low cost of ownership



Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	Single phase, two wire
Voltage range	230/240 V (P-N)
Current range	5-30A, 10-60A, 10-100A
Accuracy class	1.0
Mains frequency	50 Hz \pm 5%
Burden	
Voltage circuit:	< 0.5W and 1 VA
Current circuit:	< 0.1 VA

Compliance

Standards	IS 13779, IEC 62052-11, IEC 62053-21, IS 15959
Meter constant	6400 imp/kWh, 3200 imp/kWh, 1280 imp/kWh

Mechanical

Dimensions (W x H x D)	95 x 130 x 60mm (approx.)
Weight	0.3 kg (approx.)
Enclosure	Engineering plastic

Environmental

Ingress protection	IP 54
Surge withstand	10 kV
Humidity	95% non-condensing
Temperature	-20 0C to +600C (operating), -25 0C to +70 0C (storage)

Measurement

Energy types	Active and apparent
Energy registration	Forwarded, import and export

Tariff

	Up to 8 rate registers
	Up to 8 time zones
	Seasons, weekdays, and holidays
Maximum demand	Configurable in 6 rate registers

Data storage

Midnight energy	35 days for 2 parameters
Load survey	More than 150 days (30min. IP) upto 5 parameters
Events	Up to 300 events, compartment wise
History	12 billing periods

Communication

IEC 62056-21 physical port for local communication
 Optional BLE (Bluetooth Low Energy) with mobile app support or
 RS 232 port over micro USB for remote communication

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