compact, accurate and reliable







Intuitive



Compact size 95x13ox6omm (w x h x d)



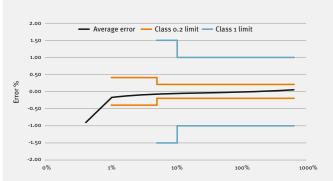
Interoperable communication



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

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

End to end data security

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

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



Saral

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 ± 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) 95x130x6omm (approx.)

Weight 0.3 kg (approx.)
Enclosure Engineering plastic

Environmental

Ingress protection IP 54
Surge withstand 10 kV

Temperature -20 °C to +60 °C (operating)

-25 °C to +70 °C (storage)

Humidity 95% non-condensing

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 62056-31 physical port for local communication

Optional RS 232 port over micro USB for remote communication

