

Saral 305

Three-phase direct-connected credit meter



Intuitive
operation



Revenue
protection



Interoperable
communication

Compact, accurate and reliable

Saral 305 is a new generation, three-phase, direct-connected meter from the Saral family. It is an accurate and reliable metering solution for measuring electrical energy in three-phase, four-wire networks.

It is suitable for domestic, SMEs (small and midsize enterprises) and commercial applications. The special revenue protection measures make it valuable for areas prone to theft.



Application

- Residential metering
- Sub-metering
- Small and midsize commercial and industrial establishments
- Solar-net metering

Benefits

- Low cost of ownership (reduces operational cost)
- Simple to use (compact, lightweight and intuitive display)
- Reliable and flexible in use
- Peak and off-peak tariff management

Highlights

- Meter data is end-to-end protected against manipulation
- Authenticated billing and metering data with time stamps
- M-Cubed 100 software for meter configuration and reading through optical port

Features

- Encapsulated enclosure - integrated base and cover
- Aperture-less display actuator
- Intuitive and legible display
- Better ingress protection
- Enables wireless meter data collection over mobile application through short range 2.4GHz RF communication (optional)
- Capable of serving AMR functionality through an external modem
- Extensive anti-tamper functionalities for analysis of tamper attempts
- Load profile for analysis
- Option of manual billing data collection in absence of mains power
- Quality-of-supply information including THD and voltage monitoring
- Installation error diagnosis



Technical specifications

Electrical

Connection type	Three phase, four wire, direct connected
Rated voltage	3 x 230/240 V, ± 10%
Current range	10 A Ibasic, 100 A Imax
Accuracy	Class 1.0
Frequency	50 Hz, ± 5%
Metrology LEDs	Two LED for active and reactive/ apparent energy

Burden

Voltage circuit	< 1W/1.5 VA per phase
Current circuit	< 0.1 VA per phase
Standards Compliance	IS 13779, IS 15959 ICS DLMS compliance

Mechanical

Dimension W x H x D	190 mm x 158 mm x 78 mm (approx.)
Weight	900 grams (approx.)

Enclosure material

Meter case, terminal block	Engineering-plastic
Sealing	Break to open enclosure, additional sealing provision between meter body and terminal block

Environmental

Ingress protection	IP 54
Insulation class	Protective class II
Operating temperature	-10 °C to +60 °C
Storage temperature	-25 °C to +70 °C
Humidity	95%, non-condensing

Features

Tariff rate registers	Up to 8 rate registers, for configured energy channels
Maximum demand	Up to 2 types, configurable across 8 registers
Load survey	Up to 90 days profiling for 10 parameters with 30 min IP
Communication options	Optical port for local communications and additional RS232 port (RJ45 connector) for remote communication Enables wireless meter data collection over mobile application through short range 2.4GHz RF communication (optional)

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