

# Saral 300

Three-phase direct-connected credit meter



Intuitive



Revenue protection



Interoperable communication

## Compact, accurate and reliable

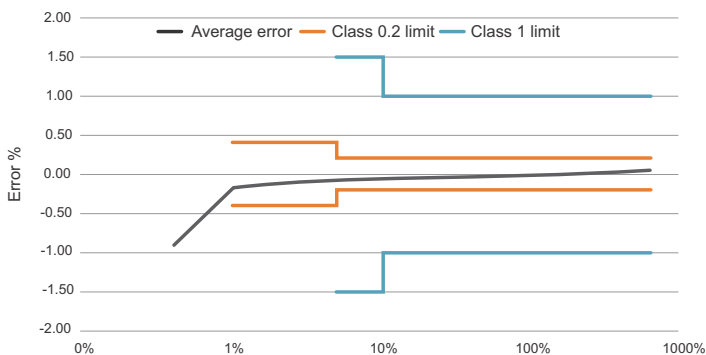
Saral 300 is an enhanced metering solution for three-phase direct-connected installations. It is suitable for domestic, industrial and commercial applications.

Saral 300 is an accurate and reliable metering solution for the measurement of electrical energy three-phase four-wire networks and ensures revenue assurance, making it especially useful in areas where theft and fraud are prevalent.



## Metrology

- Saral 300 sets the benchmark for metrology in its class and exhibits stable metrological characteristics under diverse conditions in the field



## Revenue protection

- Advanced anti-tamper prevention, detection and deterrence
- Revenue protected against wrong connections such as reversal, interchange of earth/neutral, or partial earthing
- Extensive forensic information for detection and analysis of tamper attempts
- Locking arrangement for incoming mains cable, to inhibit wiring tamperers

## End to end data security

- Meter data protected against manipulation
- Authenticated billing and metering data, with time stamps

## Highlights

- Meter reading in the absence of mains power
- Integrated base and cover
- Current and temperature profiled to help detect loose connections and attempts to burn
- Walkby meter reading over BLE (Optional)

## Simplicity

- Light and compact
- Intuitive display
- Aperture-less display actuator

## Benefits

- Revenue protection against tamper and fraud
- Quality-of-supply information
- Peak and off-peak tariff management
- Stringent ingress protection, can be used outdoors
- Low cost of ownership



## Technical specifications

### Electrical

Connection type	3-phase 4-wire, direct connected
Rated voltage	230/240 V
Impulse withstand	10 kV, 2 $\Omega$ setup
Current range	5-30 A/10-60 A/10-100 A
Frequency	50 Hz, $\pm$ 5%
Accuracy class	Class 1.0
Metrology lamp	Two metrological LEDs for active and reactive energy
Burden	
Voltage circuit:	0.32 W/0.6 VA per phase
Current circuit:	<0.1 VA

### Compliance

Standards	IS 13779, IS15959 for ICS and CBIP 325 for magnet
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### Mechanical

Dimension W x H x D	126 mm x 222 mm x 92 mm
Enclosure material	
Meter case:	LEXAN 143/ 943 or equivalent
Terminal block:	LEXAN 500R/equivalent
Weight:	0.78 kg (approx.)
Sealing provision	One wire seal and one paper seal between body and terminal block, two on terminal block cover

### Environmental

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

### Features

Tariff rate registers	Up to 8 rate registers, for configurable energy channels
Maximum demand	Up to 2 types, configurable across 8 registers
Load survey	Up to 240 days for 10 parameters, at 30 minutes integration period
Communications	Optical port for local communications,
Options	micro USB, BLE4.1 (Bluetooth Low Energy) registers

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