# Saral 305

Three-phase direct-connected credit meter

Intuitive

Revenue protection

Walk-by 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 measurement of electrical energy in three-phase, four-wire networks.

It optimises a utility's revenue cycle through remote meter reading. The special revenue protection measures make it valuable for theft-prone areas.

### Application

- Residential metering
- Small commercial and industrial establishments
- Sub-metering for residential, small industrial and commercial establishments
- Sub-metering installation to monitor mains and DG energy separately

### 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

### Features

- Encapsulated enclosure - integrated base and cover
- Aperture-less display actuator
- Intuitive and legible display
- Better ingress protection
- Enables meter data collection over BLE (optional)
- Capable of serving AMR functionality through a terminal fitted modem
- Pulse output and pulse input for different application
- 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, voltage monitoring, and CAIDI
- Capable of recording energy on diesel generator supply along with mains (optional)
- Installation error diagnosis

SECURE energy together

# Saral 305

## Technical specifications

| | |
|---|---|
| **Electrical** | |
| Connection type | 3-phase 4-wire, direct connected |
| Rated voltage | 230 V (Option for 240V) |
| Current range and Accuracy | 5-100 A, Class 1.0 |
| Frequency | 50 Hz, ± 5% or 60 Hz, ± 5% |
| Metrology LEDs | Two LEDs for active and reactive/apparent energy |
| **Burden** | |
| Voltage circuit | < 1W/1.5 VA per phase |
| Current circuit | <0.1 VA per phase |
| Standards Compliance | IEC62052-11, IEC 62053-21, IEC 62053-24, IEC 62056-21 |
| **Mechanical** | |
| Dimension W x H x D (approx) | 190 mm x 209 mm x 89 mm (with long ETBC)<br>190 mm x 158 mm x 78 mm (with short ETBC) |
| **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 ate 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 Built-in BLE (Bluetooth Low Energy) for wireless reading & Terminal fitted modem (Skyline T45) for remote communication |
| Pulse I/O | Options: Two pulse output or One pulse output & one pulse input<br>Pulse output rating: 40V-240V AC/DC @200mA<br>Pulse input rating: 230 V AC |
| Dual register | Separate energy registers for mains and DG (Diesel Generator) |
| **Skyline T45** | |
| Power supply modem | 5-17V DC, 1A |
| Power consumption | Less than 5W |
| Connection Interface | RJ 45 |
| Communication | 4G fallback to 2G |
| SIM Card | 4G enabled Nano SIM card |
| Antenna | Stub antenna, optional high gain extended antenna |
| Compliance | EN 62368-1, ETSI EN 301 489-1 |
| Supported frequencies | 700, 800, 850, 900, 1800, 1900,2100,2600 Mhz |
| Dimensions (W x H x D) | Modem : 68mm X 53mm X 25mm (approx) |



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