

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



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) 190 mm x 158 mm x 78 mm (with short ETBC)
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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 Pulse output rating: 40V-240V AC/DC @200mA 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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