

Sprint Dual

Dual source energy metering

Sprint Dual Register is specially designed for dual-source energy metering. It provides two separate registers for recording energy from mains and backup supply, such as an auxiliary diesel generator (DG). Sprint Dual Register also provides a load control facility for disconnecting the mains if the consumer's load exceeds a programmed limit.



Application

- Industrial users
- Shopping malls
- Residential complexes
- Hospitals
- Universities
- Domestic backup generation (DG)

Benefits

- Single-meter solution for mains and backup metering, no need for separate meters
- Automatically switches between registers via pulse input
- Helps prevent excess load via load control pulse output
- Easy Integration with AMR/RMR systems

Features

- Accuracy class 1.0 and 2.0
- Bi-vector energy measurement
- Separate energy registration for mains and backup supply
- Pulse input for switching the metering element between mains and backup supply
- Pulse output for load control (load monitoring based on average load over the last minute)
- Time-of-use metering
- Maximum demand registration
- Large backlit LCD window
- Forward energy registration in case of current reversal
- Automatic billing action at predefined times
- Scroll-lock feature to display desired parameter continuously
- High-resolution energy register for dial testing
- Advanced tamper detection features for voltage, current and magnetic influence
- Monthly average power factor recording for reactive power management
- Optical communication port
- Meter reading in the absence of mains supply, using inductive-coupled external power pack.

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Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	3-phase 4-wire
Voltage range	230 V/240 V (L-N), 400/415 V (L-L)
Current range	10-60 A, 20-100 A
Accuracy	Class 1.0, 2.0
Mains frequency	50 Hz \pm 5%
Burden	As per standards

Compliance

Standards	IS13779, CBIP 88, IEC 62052-11, IEC 62053-21
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Mechanical

Dimensions (W x H x D)	175 x 250 x 73 mm
Weight	2.1 kg (approx.)
Enclosure	Engineering plastic
Sealing	Sealing screws on main cover and terminal cover

Environmental

Degree of protection	IP 51
Insulation class	As per IS13779
Impulse withstand	As per IS13779
Temperature	-10 °C to +55 °C (operating) -25 °C to +70 °C (storage)
Humidity	95% non-condensing

Features

Tariff rate registers	Up to 4 zones for each supply type (mains and backup)
Maximum Demand	Up to 2 zones, configurable across 4 registers
Load Survey	Minimum 140 parameter-days with 30-minute integration period
Communication	Optical communication port