

Sprint 231

a part of Liberty Online



Remote disconnect



Supports multi-operator SIMs



Modular communication



Power outage notification

3 element smart meter with cellular communications

Sprint 231 is a single-phase three-element smart meter with three separate measuring elements for independent recording of multiple loads, such as general domestic, solar, hot water or electric vehicle charging (EV). Its field-replaceable communications module enhances flexibility, and makes the utility's investment future-proof.

The meter supports remote firmware upgrade, allowing metering and communications features and functionality to be updated in the field. This enhances flexibility, and makes the utility's investment future-proof. The Sprint 231 smart meter forms part of the Secure's Liberty Online, smart metering solution. Refer LibertyOnline brochure for system details.



Applications

- Domestic and small commercial premises
- Three elements to support independent loads (i.e. solar, hot water, EV) in a single meter
- Suitable for co-generation metering applications
- Advanced metering infrastructure (AMI)

Benefits

- Meets the minimum services specification as per Australian National Electricity Rules (NER)
- Multi-operator (roaming) SIM support – ensures maximum network coverage
- Peak and off-peak tariff management
- Remote de-energisation and energisation
- Four-quadrant metering with import/export registration
- Alerts to identify potential anomalies
- Quality of supply (QoS) monitoring
- Modular communication

Key features

- Better information on usage to manage energy consumption
- Improved billing cycle and accuracy through remote reading
- Facilitates supply connection/ disconnection remotely
- Power outage management – quick response time
- Remote re-configurations
- Reduced cost of ownership
- Removes cost of manual read
- Designed to serve long life in field
- Remote firmware upgrade

Options and accessories

- Auxiliary load control
- External antenna
- Support of home area network (HAN)
- ZigBee® compliant in-home display



Technical specifications

Electrical

Connection type	1-phase, 2-wire, direct connected
Measuring elements	3 elements
Rated voltage	230 V AC, -20% to +15%
Maximum voltage	460 V (L-N) continuous
Impulse withstand	12 kV, 9 J, as per NMI M6
Current range	10 - 100A
Frequency	50 Hz ±5%
Accuracy	Class 1.0 (active energy), class 2.0 (reactive energy)
Metrology lamp	Two metrological LEDs for active and reactive energy

Compliance

Standards	NMI M6-1, AS 62052.11, AS 62053.21, AS 62053.23, AS 62052.21 Exceeds minimum services specification as per the National Electricity Amendment (expanding competition in metering and related services. Rule 2015 No. 12)
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Data storage capacity

Energy/demand load profile	395 days (per channel) at 30-minute interval (configurable), up to 16 channels
Quality of supply (QoS) parameters	90 days (per parameter) at 30-minute interval (configurable), up to 16 parameters, including average voltage, current, phase angles, temperature

Switches/outputs

Integrated supply/load contactors	3 x 100 A switches
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Mechanical

Dimensions (W x H x D)	180 mm x 252 mm x 118 mm
Enclosure material	Flame-retardant polycarbonate
Weight	2.4 kg (approx.), depending on variant
Sealing provisions	Terminal cover, meter main cover, communications module
Display	8-character alphanumeric LCD with backlight and icons for status

Environmental

Ingress protection	IP 53
Insulation class	Protective class II
Temperature	Operating: -10°C to + 60°C Storage: -25°C to + 70°C
Humidity	95%, non-condensing

Time clock

RTC type	Crystal or mains-synchronised
Power source	Mains supply
Backup source	Lithium battery, 15-year life
Compliance	AS 62054.21

Measurement

Energy types	Active, Reactive
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Communications

Local	ANSI optical port
Remote	3G/4G WAN, build option for ZigBee® HAN Hot-swappable field interchangeable module, sealable separately
Security	AES128 encryption, security of metering data , secure remote reads , cover open detection
Outage notification	Reserve power supply