

# Sprint 231

a part of Liberty Online



Remote disconnect



Supports multi-operator SIMs



Modular communication



Power outage notification

## three 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 firmware upgrade, allowing metering and communications features, functionality to be updated in the field. Sprint 231 meters are 'fit for purpose' for all contestable metering installations. This enhances flexibility and makes the investment future-proof. The meters can be used for individual domestic or small commercial applications, offering value for money with reduced Capex and inventory. The Sprint 231 smart meter forms part of the Secure's liberty online smart metering solution. Refer liberty online 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)

### Key features

- Meets the minimum services specification as per Australian National Electricity Rules (NER)
- Multi-operator (roaming) SIM support – ensures maximum network coverage
- Credit and Pay As You Go (PAYG) mode (remotely switchable)
- 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
- Remote firmware upgrade

### Benefits

- Better information on usage to manage energy consumption
- Improved billing cycle and accuracy through remote reading
- Facilitates supply connection/ disconnection remotely
- Fail-safe installation and commissioning process – reduced site opex and time
- 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

### Options and accessories

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



## Technical specifications

<b>Electrical</b>	
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
<b>Compliance</b>	
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)
<b>Data storage capacity</b>	
Energy/demand load profile	395 days (per channel) at 30-minute interval (configurable), up to 16 channels, 65 days (per channel) at 5-minute interval (configurable), up to 4 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
<b>Switches/outputs</b>	
Integrated supply/load contactors	3 x 100 A switches
<b>Mechanical</b>	
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
<b>Environmental</b>	
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
<b>Time clock</b>	
RTC type	Crystal or mains-synchronised
Power source	Mains supply
Backup source	Lithium battery, 15-year life
Compliance	AS 62054.21
<b>Measurement</b>	
Energy types	Active, Reactive
<b>Communications</b>	
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