Premier 211
a part of Liberty Online

Supports
multi-operator SIMs

Modular
communication

Power outage
notification

three-phase CT-operated smart meter with cellular communications

Premier 211 is a three-phase CT-operated smart meter that provides flexibility through a modular design to accommodate the latest cellular communications technologies. Premier 211 paves the way for reliable data transfer, making it the ideal solution for AMI applications.

The meter supports firmware upgrade, allowing metering and communications features, functionality to be updated in the field. Premier 211 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 Premier 211 smart meter forms part of the Secure's liberty online smart metering solution. Refer liberty online brochure for system details.

Applications

- Industrial three-phase metering
- Medium and large commercial premises
- Suitable for three-phase 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
- 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
- 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

- External antenna
- Support of home area network (HAN)

SECURE
energy together

Technical specifications

Electrical

Connection type	3-phase, 4-wire, CT-operated
Rated voltage	230 V, -20% to +15%
Maximum voltage	460 V (L-N) continuous
Impulse withstand	12 kV, 9 J, as per NMI M6
Current range	5-20A
Frequency	50 Hz ±5%
Accuracy	Class 0.5 (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 62053.22, 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)

Data storage capacity

Energy/demand load profile	395 days (per channel) at 30-minute interval (configurable), up to 4 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 22 parameters, including average voltage, current, phase angle, temperature

Switches/outputs

Auxiliary load control	2A relay

Mechanical

Dimensions (W x H x D)	180 mm x 252 mm x 118 mm
Enclosure material	Flame-retardant polycarbonate
Weight	1.7 kg (approx.)
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

Communications

Local	ANSI optical port
Remote	3G/4G WAN 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

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