TLP211-3PHASE Datasheet



three-phase smart meter with cellular communications

The Sprint 211 is a three phase smart meter that provides communication flexibility using a modular design to accommodate the latest cellular communication technologies. The Sprint 211 paves the way for reliable data transfer making it the ideal solution for smart metering applications.

The meter supports firmware upgrade, allowing metering and communications features, functionality to be updated in the field. Sprint 211 meters are 'fit for purpose' for all contestable and embedded metering installations. This enhances flexibility and makes the investment future-proof. The meters can be used for individual domestic or small commercial applications as well as for co-located metering installations in child configuration, offering value for money with reduced Capex and inventory. The Sprint 211 smart meter forms part of the Secure's liberty online smart metering solution. Refer liberty online brochure for system details.

Applications

- Domestic and commercial premises
- Embedded networks and co-located installations (optional)
- 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
- Credit and Pay As You Go (PAYG) mode, remotely switchable (optional)
- Peak and off-peak tariff management
- Remote de- energisation and energisation
- Alerts to identify potential anomalies
- Quality of supply (QoS) monitoring
- Modular communication
- Remote firmware upgrade



Benefits

- Value for investment with common infrastructure for contestable and embedded solutions.
- Better information on usage to manage energy consumption
- Improve billing cycle and accuracy through remote reading
- Facilitates supply connection/disconnection remotely
- Optimised telecommunication and data services for embedded networks
- 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
- Build options
 - 4G WAN & Zigbee HAN (Contestable)
 - Zigbee HAN (Embedded child)
- ZigBee[®] compliant in-home display

Sprint 211 a part of Liberty Online









multi-operator SIMs



Technical specifications

Electrical Connection type Rated voltage Maximum voltage Impulse withstand Current range Frequency Accuracy class Metrology lamp	3-phase 4-wires, direct connected 230 V, -20% to +15% 460V (L-N) continuous 12 kV, 9 J, as per NMI M6 10-100A 50 Hz ±5% Class 1.0 (active energy), class 2.0 (reactive energy) 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)
Data storage capacity Energy/demand load profile Quality of supply (QoS) parameters	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 90 days (per parameter) at 30-minute interval (configurable), up to 8 parameters, including average voltage, current, phase angles, temperature
Switches/outputs Mains supply contactor Auxiliary load control	100A 31.5A, variant specific
Mechanical Dimension W x H x D Enclosure material Weight Sealing provisions Display	180 mm x 252 mm x 118 mm Flame retardant poly-carbonate 2.4 kg (approx.) Terminal cover, meter main cover, communications module 8-character alphanumeric LCD with backlight and icons for status
Environmental Ingress protection Insulation class Temperature Humidity	IP 53 Protective class II Operating: -10 °C to +60 °C Storage: -25 °C to +70 °C 95%, non-condensing
Time clock RTC type Power source Backup source Compliance	Crystal or mains-synchronised Mains supply Lithium battery, 15-year life AS 62054.21
Measurement Energy types	Active, reactive
Communication Local Remote Security	ANSI optical port Build Options for: 3G/4G WAN & ZigBeeHAN (Contestable), ZigBeeHAN (Embedded child meter, up to 15 per master) Hot-swappable field interchangeable module, sealable separately AES128 encryption, security of metering data, secure remote reads, cover open detection Reserve power supply