

Sprint 210

Three-phase smart meter - Open protocol



Remote disconnect



Modular communication



Power outage notification

Modular two way communicate and optional load control

Sprint 210 is a three-phase meter with flexible, modular communications capability, including DLMS/COSEM. The communications module can be fitted at manufacture, or installed and replaced in the field. This simplifies inventory management and maximizes operational flexibility, by enabling the best technologies to be used, now and in the future.

Sprint 210 paves the way for easy and convenient data transfer from the meter to the utility's back office, and is the ideal solution for AMI applications. Provision for a range of communication technologies, including mesh radio and 3G/4G devices, ensures that Sprint 210 will meet your current and future needs.



Application

- Domestic three-phase metering
- Small commercial premises
- Advanced metering infrastructure (AMI) and AMI-ready
- Co-generation metering

Benefits

- Easy integration with AMI system through modular communications
- Front-mounted communications module for easy fitment and replacement in the field
- Helps consumers to reduce energy usage, through detailed and timely information
- Enhanced operational flexibility and simplified inventory management through pre-loaded configurations

Options and Accessories

- Integrated mains supply contactor
- Auxiliary load control terminals
- Customer supply monitoring
- Various terminal cover sizes
- ZigBee compliant in-home display
- Optical communications probe

Features

- Four-quadrant metering with import/export registration
- Integrated mains supply contactor (AMI-ready) and auxiliary load terminals (build options)
- Remote and local de-energisation and energisation
- Support for AMI features: TOU-based switching, boost and supply capacity control (variant specific)
- Remote firmware upgrades
- Large capacity power supply to support high communications demands
- Communications 'front belly' module, supporting a range of devices
- Enhanced profile storage, with primary load profile for energy data and secondary profile for supply quality
- Logging and remote notification (alarm) of events
- Quality of supply (QoS) monitoring
- Provision for tamper detection
- DLMS/COSEM open protocol compliant
- Meets the minimum services specifications (Australian National Electricity Rules)

Software

- M-Cubed 100 software suite for meter configuration and reading



Technical specifications

Electrical

Connection type	3 phase, 4 wire, direct connected
Rated voltage	230 V AC, -20% tp +15%
Maximum voltage	460 V (L-N)
Impulse withstand	10 kV, 0.5J (as per IEC) 12 kV, 9J (as per NMI M6)
Frequency	50 Hz ± 5%
Current range	10 A Lb, 100A I _{max}
Accuracy	Class 1.0 (active energy), class 2.0(reactive energy)

Compliance

Standards*	AS 62052.11, AS 62052.21, AS 62053.21, AS 62053.23, NMI M6-1 IEC 62052.11, IEC 62052.21, IEC 62053.21, IEC 62053.23, IEC62056 series (DLMS/COSEM) Exceeds minimum services specification, as per the Australian National Electricity Amendment (expanding competition in metering and related services)
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Mechanical

Dimensions (WxHxD)	180 mm x 221 mm x 118 mm (standard terminal block cover) 180 mm x 252 mm x 118 mm (extended terminal block cover)
Enclosure material	Flame-retardant polycarbonate
Sealing	Terminal cover, meter main cover, config button, communications module
Weight	2.4 kg (approx.)
Display	8-character alphanumeric LCD with backlight and icons for status

Environmental

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

Data storage capacity

Energy/demand load profile	1680 days (single channel) @ 30 minute interval (configurable)
QoS parameters	>3000 days (single parameter) @ 30 minute interval (configurable), depending on variant

Switches/outputs

Mains supply contactor	100 A (build option)
Auxiliary load control	31.5 A and/or 2 A (build options)

Time clock

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

Measurement

Energy type	Active, reactive
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Communication

Local	ANSI or IEC optical port
Remote	LAN/HAN/WAN, with support for most communications topologies Hot-swappable interchangeable modules, sealable separately
Security	AES128 encryption, cover-open detection
Outage notification	Reserve power supply (build option)

*For detailed specification, please refer to technical specification guide

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