



Multifunction Power Meter

SPM-1600



Features

- Class 0.5 revenue accuracy (with DC immunity option)
- Wide range of current measurement (from 0.001 lb to 6.67 lb)
- Bi-directional energy measurement
- Multi-tariff with TOU (up to 4 tariffs)
- Full power parameters measurement
- Power quality monitoring and analysis (with THD, sag/swell option)
- Four quadrant measurement
- 96~528 VAC input with any phase power supply
- Energy calculation under phase lost
- Wide range of operation temperature -30°C~70°C
- Configurable block or rolling demand
- Configurable crystal or power line time-base
- IEC 62053-22, ANSI C12.20 accuracy
- 10 years certified life

Specifications

Power

96~528 VAC, 50/60 Hz, 3 phase power supply

Accuracy

Class 0.5 (IEC 62053-22 or ANSI C12.20)

Range

Voltage 96~528 Vac

Current

Model SPM-1605: 1b 5A, 2.5mA~20 A
Model SPM-1630: 1b 30A, 30mA~150A

Starting Current

2.5 mA for SPM-1605, 30 mA for SPM-1630

Temperature range

-30°C~70°C inside meter cover

Humidity range

0 to 100% noncondensing

Primary time base

Power line frequency (50/60 Hz), software configurable to crystal

Secondary time base

< 0.01%

Meter base

Form 16A (14A, 15A, 17A) for SPM-1630
Form 10A (9A) for SPM-1605

Battery

LiSOCl₂, 950 mAh

Communication port

ANSI Type II optical port

Communication option board

RS-232, RS-485, Modem, LonTalks PLC, GPRS

Application standard

ANSI C12.1 / C12.10 / C12.18 / C12.19 / C12.20 / C12.21

TOU

4 tariff with season, day type, and time zone settings

Load profile memory

512KByte configurable up to 20 channels (With the LP option)

Power quality measure

Voltage and current THD per phase, programmable sag/swell recording(With the LP option)

Harmonics analysis

Event driven log, plotted by MeterGen(With LP option)

Programming software

MeterGen for meter configuration
MeterComm for DAP communication
LoadProfiler for load curve report
3 level security protection.

Communication protocol

ANSI C12.18, ANSI C12.19(with Modem option)
ModBus (with RS-232/485 option)

Surge voltage withstand

ANSI C37.90.1, ANSI C62.4.1, IEC 61000-4-4

Calibration

Automatic software calibration

Dimension

188mm(W) x 235mm(H) x 156mm(D)

Net weight

2.1 Kg



Multi-Function Power Meter

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Ordering Information

SPM-16XX--X X		
Model	Type1	Type2
1605- lb 5A	0 : TOU – Basic metering with TOU	0 : Standard
1630- lb 30A	1 : LP – TOU, Load profile and power quality measure	1 : DC immunity

Accessory

- SPM1600 - SW01 MeterGen programming and Windows communication software
- SPM1600 - SW02 MeterComm DAP communication software
- SPM1600 - SW03 LoadProfiler software
- SPM1600 - CM01 Telephone Modem communication board
- SPM1600 - CM02 LonTalks PLC communication board
- SPM1600 - CM03 RS-232 communication board
- SPM1600 - CM04 RS-485 communication board
- SPM1600 - CM05 GPRS communication board