



Smart Energy Controller

SPM-1900



Features:

- Widely used for power monitoring and control in factory and building
- Manage up to 16 units of power transducer
- Flexible field communication interfaces(Ethernet and RS485) for different power transducer connection
- Rich electricity parameters and power quality display for main and sub-feeder transducers
- Easy integrated with 3rd party supervisory control systems
- Remote power monitoring and control via intranet/internet
- Electricity demand control with 16 channel load shedding
- Multi-tariff management with TOU (Time-of-Use rate)
- Built in web server remote monitoring and control & data download
- Automatic report and alarm status sending by E-mail
- Front USB host port for data backup and program download

Specifications:

Hardware:

Power

85~240VAC
47~63Hz
60VA
Maximum 23W

Display

6.4" TFTLCD
640 x 480 pixel resolution
24 bits colors

Memory

64 MB RAM / 32 MB Flash / 6 MB DOC / RTC(Battery back-upped)

Interface

USB : Host Port x1
Keypad : Function Key x7 \ Arrow Key x4
Digital Output x16
LEDx2

COMM Module

Interface : RS-485 x 1
Protocol : ModBus over serial line

Standard Ethernet Communication

Ports : Ethernet = 10/100Mbps Base T x 2
Protocol : ModBus over TCP/IP, HTTP, SMTP

Environmental & Physical

Operation Temperature : 5°C to 50°C
Storage Temperature : -25°C to 60°C
Humidity : 20 to 80%RH (non-condensing)
Dimensions : 196mm (W) x 196mm (H) x 135mm (D) for panel mount

Software:

Electricity Measurement Monitoring

- Display various real time measures for each transducer
- View electricity data in digits and bars.

Power Quality Monitoring

- Displays the voltage THD and the current THD in digits and bars
- 32 levels of harmonic display(depends on Transducer)

Report Generation System

- Daily and monthly aggregate reports for the main loop
- Daily and monthly detail reports for each sub-loop

Historical and Real Time Trend

- Displays the voltage, the current and the load in different color for each phase
- Specify the time period to show historical data

Alarm and Event Report

- Displays alarms and events in different colors
- The status of alarms will be updated dynamically.
- Sends instantaneous alarm message by e-mail

Demand Control

- Well covering of parameters of demand control and measures
- Show important control parameters in different colors

Remote Monitoring

- Use web browsers to view real time electricity data
- Sends daily and monthly report automatically via e-mail

Scheduling Control

- Scheduling the switch sequence of each relay according to the season type and day type.