

Technical Information

5.7" Saia®PCD S-Energy-Manager

Controls Division

The S-Energy Manager panel has a 5.7" TFT display that can be run in VGA and ¼ VGA mode. For communications, Ethernet, USB and 2x RS485 interfaces are on board as standard. The device also has a real-time clock, an SD card slot and a battery.

Without programming knowledge or software engineering, the S-Energy Manager can be used immediately. Any energy meters connected are automatically logged in under the setup menu. Energy logging, the visualization application and the data storage application are immediately operational. History data, current data (CSV/Excel files) and web visualization can be accessed from anywhere with the integral AutomationServer using FTP and HTTP.

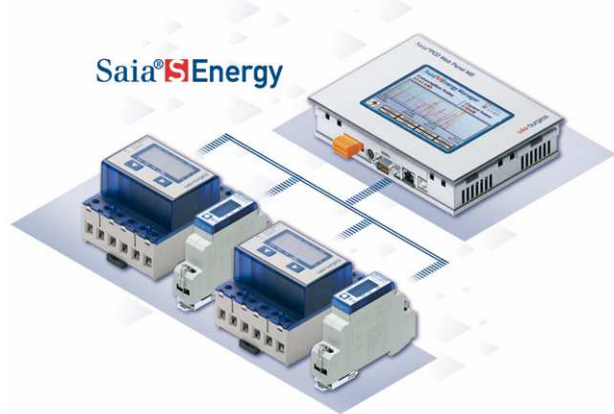
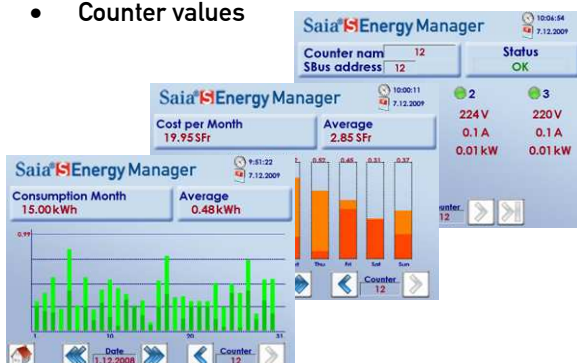
The S-Energy Manager panel is able to connect up to 254 mono-phase and three-phase, bus-coupled electric energy meters.

Main features

- 5.7" color TFT display / VGA resolution
- Logging of energy meter data to CSV
- STEP7 programmable
- 1GB SD-Flash card
- Onboard inputs/outputs
- Integrated real-time clock & battery
- USB / Ethernet / RS485
- Automation Server
- Supports up to 254 bus-coupled energy meters

Preconfigured web pages

- Actual and historical energy values and costs per Day, Week, Month and Year
- Counter and panel settings
- Counter values

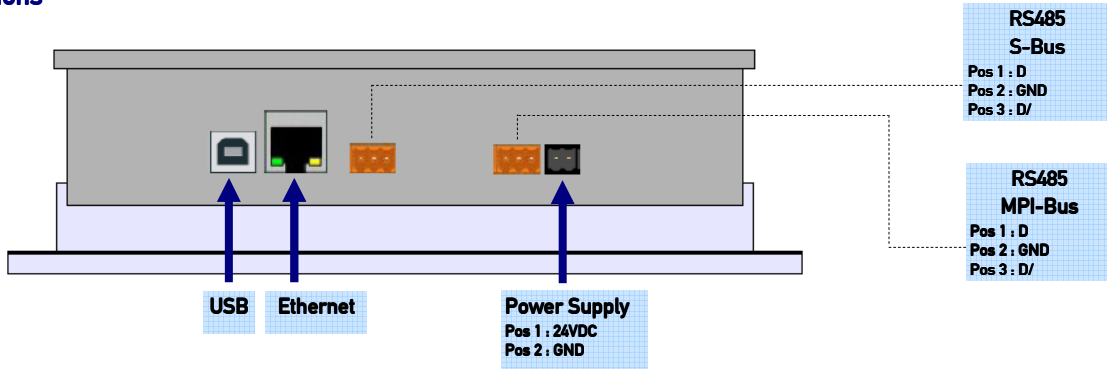


Technical data	
General data	
Supply voltage	18...32 VDC
Current consumption	max 500mA on 24VDC
Protection class (front)	IP 65
Dimensions (W × H × D) mm	202 × 156 × 50
Cut-out (W × H) mm	189 × 142
Temperature range	Operations: 0...50°C typical Storage: -20...+70°C
Humidity	Operations: 10 to 80% Storage: 10 to 98% condensing
RTC (base Ta 25°C)	Backup through battery for data retention
Battery	Lithium Renata CR 2032 (Retention 1...3 year)
Processor	Coldfire
Memory for local web server	4 MB Flash
SD card	1GB
Bus-coupled energy meters	Up to 254
Display	
Screen: colors	65 536
Display	5.7" TFT
Resolution / Pixel	VGA 640 × 480
Touch screen	Resistive touch screen
Contrast adjustment	yes
Backlight	LED
Interfaces	
Ethernet 10 / 100 M	× 1 RJ45
USB 12 M	× 1 client
Serial 1	× 1 RS 485 MPI
Serial 2	× 1 RS 485 SBus
Operating System	Saia® NT
Browser	Saia® Micro-Browser
Server	Web-Server (HTTP D) FTP-Server
Software tools	
Graphic editor	Saia® Web-Editor
PLC software	STEP7 of Siemens (up to 2048 Flags, 256 FCs, 266 FBs, 512 DBs)

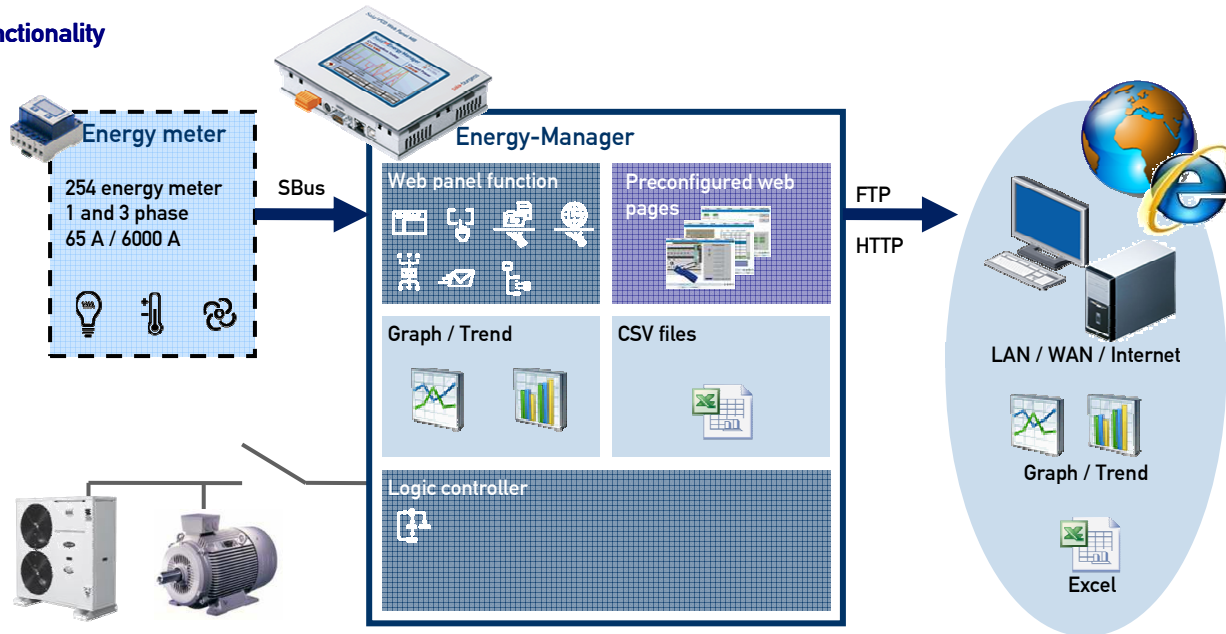
Inputs & Outputs	
3 inputs for detection of 24VDC signal	
Consumption	4mA
Filtering	8ms
3 inputs for detection of pulse signal	
Related to pulse meter norm	CEI62053-031
3 relay outputs for switching 24VAC/1A	
Coil power	typical 200mW below 12VDC
Contact protection	39V bidirectional
Filtering	RC filter for ripple attenuation

*STEP is a registered trademark of Siemens Ltd

Connections



Functionality



- All energy manager and energy meter settings are done in panel setup
- Easy extending or replacing of integrated visualization with S-Web Editor
→ Flexible adjustable to customers application
- Pre-configured web visualization
→ No need for programming
→ Works out of the box

Plug & count

Order Information

Type	Description	Weight
PCD7.D457ET7F	Energy Manager base line with S7 LC	1100g

Contact

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