

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 2× 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.

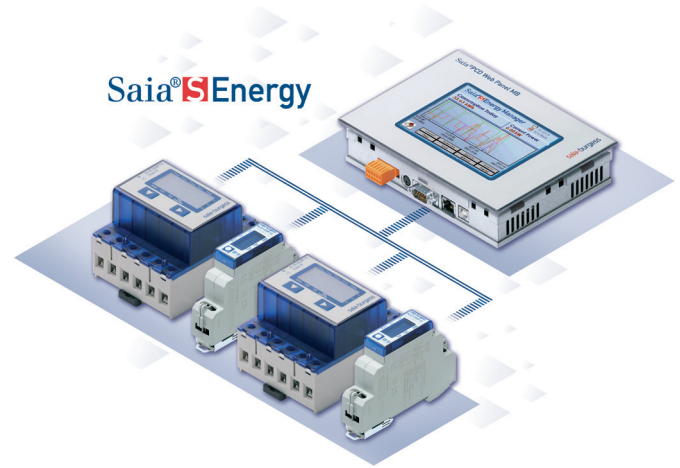
The S-Energy Manager panel is able to connect up to 254 mono-phase and three-phase, bus-coupled electric energy meters.

Main features

- 5.7" color TFT display / VGA resolution
- Logging of energy meter data to CSV
- STEP7® programmable
- 1 GB 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

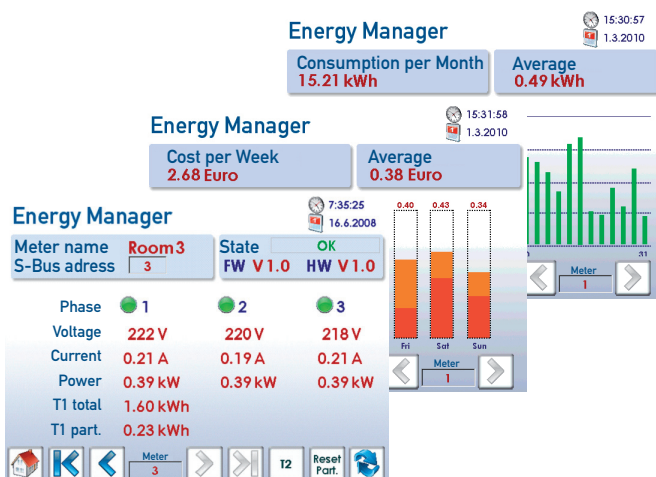
- Actual and historical energy values and costs per Day, Week, Month and Year
- Counter and panel settings
- Counter values



Technical data

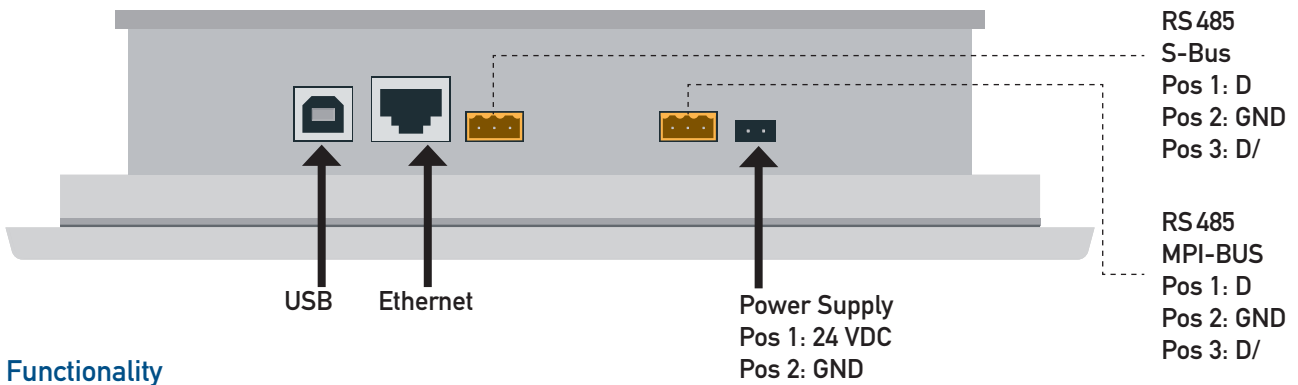
General data	
Supply voltage	18...32 VDC
Current consumption	max 500 mA on 24 VDC
Protection class (front)	IP 65
Dimensions (W × H × D) mm	202 × 156 × 50
Cut-out (W × H) mm	189 × 142
Temperature range	Operations: 0...50 °C typical Storage: -20...+70 °C
Humidity	Operations: 10 to 80% Storage: 10 to 98% 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	1 GB
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 RS485 MPI
Serial 2	× 1 RS485 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 1024 Flags, 256 FCs, 256 FBs, 512 DBs)

Inputs & Outputs	
3 inputs for detection of 24 VDC signal	
Consumption	4 mA
Filtering	8 ms
3 inputs for detection of pulse signal	
Related to pulse meter norm	CEI62053-031
3 relay outputs for switching 250 VAC / 1 A or 30 VDC / 1 A	
Coil power	typical 200 mW below 12 VDC
Contact protection	39 V bidirectional
Filtering	RC filter for ripple attenuation

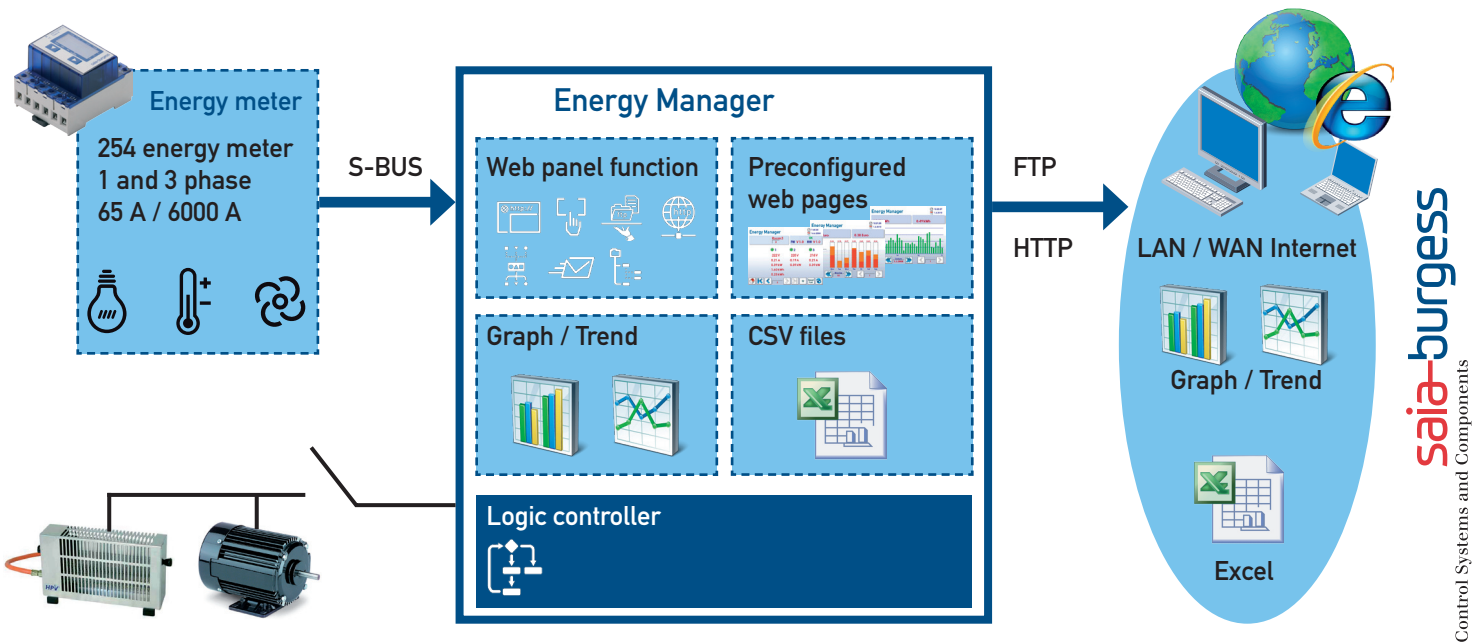


*STEP is a registered trademark of Siemens Ltd.

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

Ordering Information

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

Contact

Switzerland and international

Saia-Burgess Controls Ltd.
Bahnhofstrasse 18
CH-3280 Murten / Switzerland
T+41 (0)26 / 672 71 11
F+41 (0)26 / 672 74 99
pcd@saia-burgess.com
www.saia-pcd.com

Product Support
Technical reference website:

www.sbc-support.ch

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