

S-Monitoring

Transparency for your resources

Function for automatically capturing and saving of energy meter values – integrated into the Saia PCD®



S-Monitoring COSinus function

S-Monitoring is an integral part of the operating system COSinus and is integrated into all Saia PCD® controllers with the ending Mxx60 and the pWeb-Panel MB. It has to be activated in the PG5 Device Configurator.

The S-Monitoring function can read three different types of meters:

- ▶ Connected S-Bus energy meters and pulse counters (PCD7.H104SE)
- ▶ Other incremental meter values (M-Bus, Modbus, etc. are referred to as “custom counters” and are captured via FBoxes in the Fupla program)
- ▶ Groups of meters



The S-Monitoring COSinus function comprises the following three parts:

1. Saving of meter values in CSV files

The values of the energy meters connected are saved once a day at midnight in a CSV file on the PCD file system. The daily, weekly and monthly consumption can be calculated from this data.

	A	B	C	D	E	F	G	H	I
1	Date	Energy1	Energy2	Tariff1	Tariff2	Energy3	Energy4	Tariff3	Tariff4
2	10.6.2013	206.10	0.00	0.1600	0.1300	160.00	13.23	0.1500	0.0800
3	11.6.2013	208.70	0.00	0.1600	0.1300	164.10	13.76	0.1500	0.0800
4	12.6.2013	214.43	0.00	0.1600	0.1300	168.13	14.82	0.1500	0.0800

2. Provision of meter values via NT-EM tags (CGI interface)

All data and basic functions are available via CGI tags. These functions can therefore be accessed via the web interface or via other programs (e.g. Excel). The controller does not need a Fupla or IL program (see document 27/623).

NT-EM tag (CGI command) in the web browser:



Excel Report Tool

When the COSinus function is activated, the data can simply be imported into Excel without programming.

Download: www.sbc-support.com

3. Autoscans of SBC S-Bus energy meters and pulse counters

If the S-Bus Autoscans is activated, meters connected to the RS-485 interface are automatically detected and read. By permanently requesting the meter data, remote diagnosis of the S-Bus meters and bus connection is possible.

Current S-Bus address 73	Found meters 5	State OK FW 1.3 HW 1.3 T1
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S-Monitoring web application

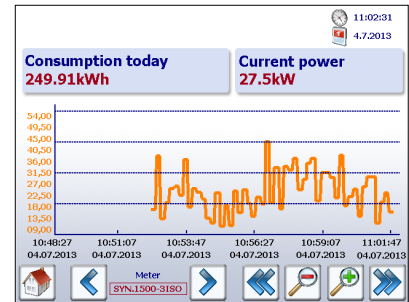
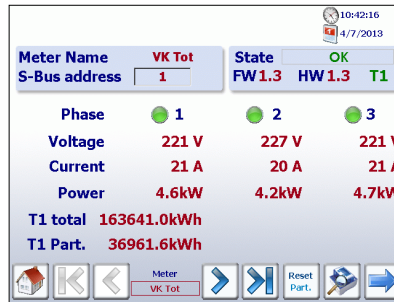
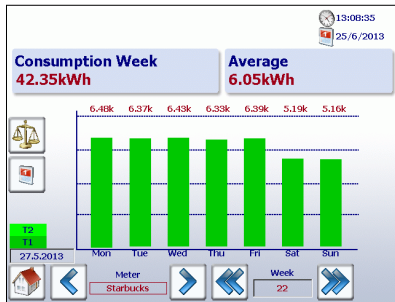
SBC delivers a PG5 project, which also includes a web visualisation. The project is based on the COSinus functions and enables saved data to be visualised on the PC immediately.

The application is available on the homepage at www.sbc-support.com, and is divided into two parts (overview in document 26/582).

1. Basic function

The basic function of the web application only uses CGI tags and therefore does not require a PG5 program.

It is used to create all bar charts and to make the settings in the Setup menu.

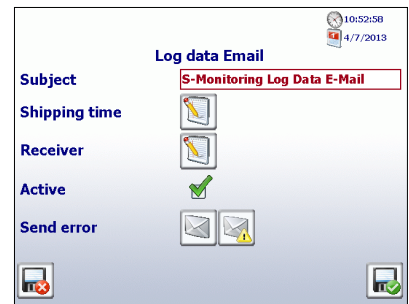
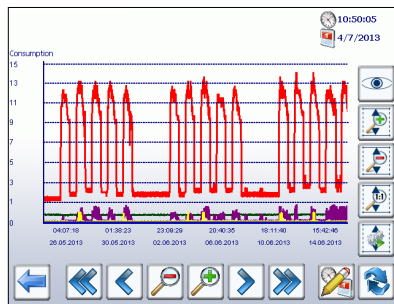
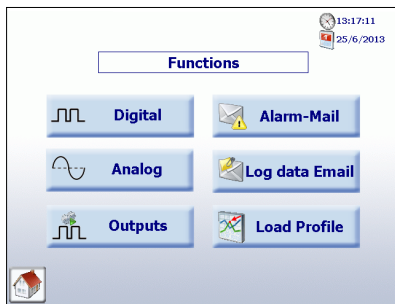


2. Advanced function

The advanced function is programmed with PG5. It can be extended, processed or deleted as required.

If the advanced function is deleted, the PG5 program in the project is no longer required.

The WebEditor project can then be run autonomously.



Technical data on S-Monitoring

S-Monitoring COSinus function integrated into	PCD1.M0160E0 (E-Controller) PCD1.M2160 PCD3.Mxx60 PCD7.DxxxxT5F (pWeb-Panel MB)
Supported meters	S-Bus meters, PCD7.H104SE pulse counters Incremental meter values (M-Bus, Modbus, etc. are referred to as "custom counters" and captured via FBoxes in the Fupla program) Meter groups
Maximum number of meters	128 S-Bus meters* 256 custom counters* 32 groups* *total of max. 256
Data storage time	Max. 4 years
Saved data	Max. 4 meter values with 4 rates per meter are saved once a day (at midnight)

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