

## Energy costs are under control with instantly operational energy monitoring!



### **S** Monitoring

#### The easy start in energy management

##### Recording energy without a large investment

- ▶ Get started with energy management step by step
- ▶ Costs and consumption displayed instantly and transparently
- ▶ Manageable investments

##### Remove the packaging and it is operationally ready

- ▶ Simple assembly and installation
- ▶ Automatic recording of connected meters
- ▶ No need to install software or set up tricky configurations










##### Prove and certify consumption

- ▶ For compliance with standards such as ISO 50001
- ▶ Identify relevant consumers
- ▶ Prove increased efficiency



## Operational functions

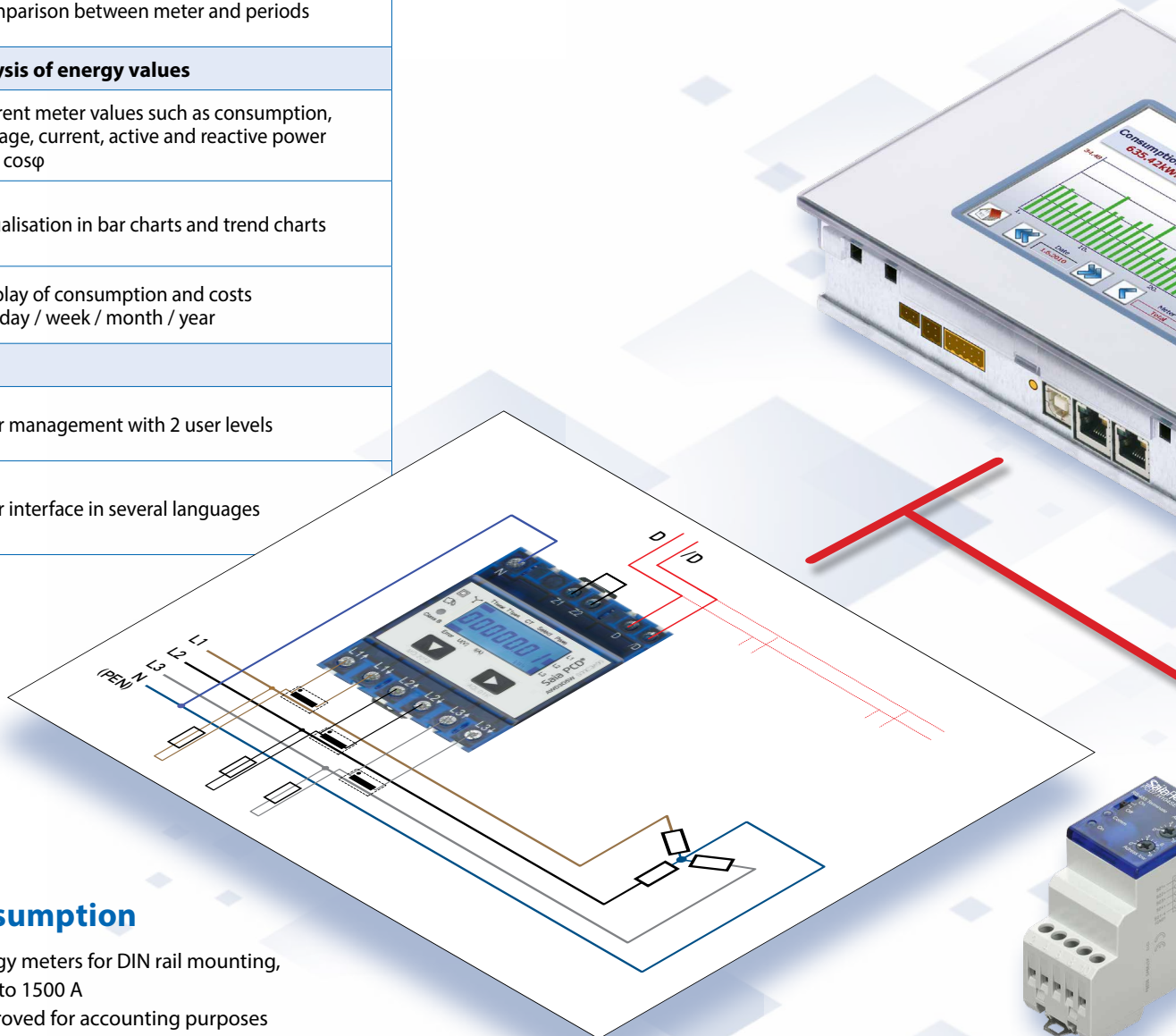
The following functions are pre-programmed in the system. The S-Monitoring system provides all the functions needed to record, display and prove resource consumption.

Recording of energy values	
	Automatic detection of connected energy meters
	Grouping of energy meters
	Status display of the energy meter
	Comparison between meter and periods
Display and analysis of energy values	
	Current meter values such as consumption, voltage, current, active and reactive power and cosφ
	Visualisation in bar charts and trend charts
	Display of consumption and costs per day / week / month / year
User support	
	User management with 2 user levels
	User interface in several languages

## Recording and displaying consumption values

- ▶ High-quality 5.7" colour TFT display (VGA/640 x 480 pixels) with touch control
- ▶ Displaying, comparing, analysing energy
- ▶ Recording measured values in the device

The E-Monitor displays the consumption values of the connected energy meters as a control panel in a high-quality colour TFT display. An intuitive user interface enables the display of charts that show costs as well as energy values such as electrical power and work. The E-Monitor also documents recorded values in an Excel-readable CSV file, which can be conveniently transferred to a PC via FTP. The E-Monitor is immediately ready to use without any configuration. Connected energy meters are automatically detected and displayed in the user interface.



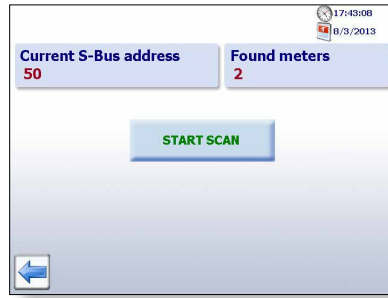
## Record consumption

- ▶ Bus-capable energy meters for DIN rail mounting, measurement up to 1500 A
- ▶ MID-tested – approved for accounting purposes
- ▶ S0 interface for the integration of commercially available meters for gas, water, oil, etc.

SBC energy meters are designed with established installation technology, and they fit on the DIN rails of commercially available distribution boxes. They measure electrical work (kWh) and electrical power (kW) as well as electrical quantities such as current, voltage, active and reactive power and the power factor cosφ. Integrated into a bus system with a range of up to 1 km, the values are transmitted to the E-Monitor for analysis and logging.

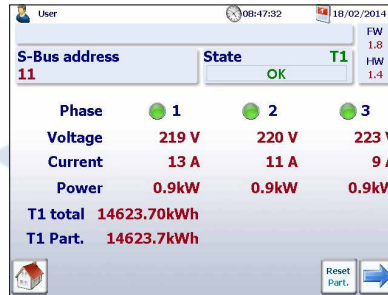
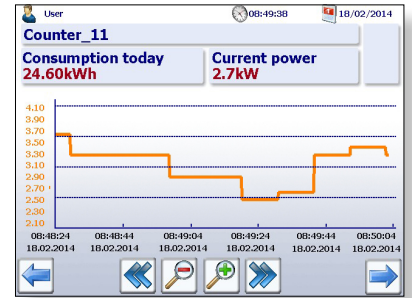
## Visualisation of consumption on site

Consumption values are displayed on site in informative displays via the web visualisation.



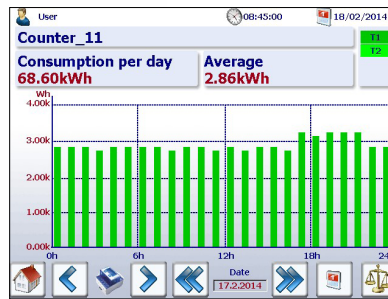
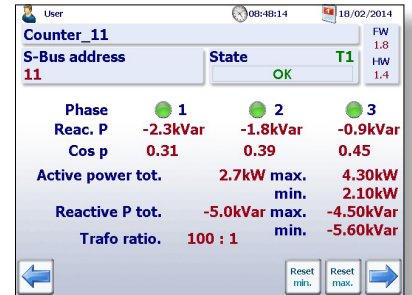
Automatic detection of meters

Current consumption in a trend chart



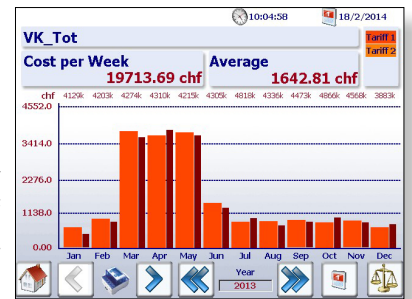
Detailed display of consumption

Extended consumption values



Representation of the day consumption using data recording of 5 minutes

Costs per day/week/month/year; individually per meter incl. comparison options

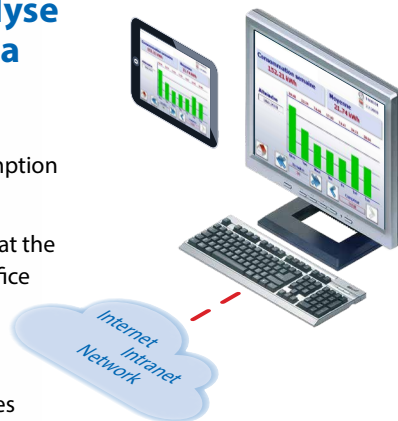


## Monitor and analyse consumption data

- ▶ Apps for mobile devices
- ▶ Log files can be exported
- ▶ Import and analyse consumption values in Excel

Data can be analysed on site at the installed web panel, on an office PC or remotely via the Internet using a web browser. In addition to the basic functions, consumption values can be sent and the load curve measured directly from the E-Monitor Panel.

**i** These additional functions require extended basic knowledge! If the corresponding knowledge is lacking, then training is an absolute necessity.



# CERTIFIED

### Proving and certifying consumption

The monitoring system is ideally suited for an ISO 50001 certification, for instance. Energy consumption can be visualised and relevant consumers identified. The system can be used to prove and verify increases in efficiency. This allows the system to keep pace with increasing requirements.








## The system grows along with your requirements

The S-Monitoring application that is loaded on the E-Monitor Panel has been created with the Saia PG5® programming tools. It can therefore be extended and adapted as needed – from integration of M-Bus and Modbus meters to automation of processes or integration in a control system. It can be coupled simply and easily with practically any kind of existing automation technology.



Saia Burgess Controls has a global network of over 500 partners that can support you in anything from small projects up to systems across property lines.

## Our products / Order information

	Description	Order number	Weight
	<p><b>E-Monitor wall mounting set 5.7"</b></p> <ul style="list-style-type: none"> <li>▶ Wall mounting kit with 5.7" PCD7.D457-OWS1</li> <li>▶ E-Monitor Web Panel 5.7" PCD7.D457VT5E0</li> <li>▶ Power supply 24 VDC Q.PS-AD2-2402F</li> <li>▶ Storage extension PCD7.R610 and PCD7.R-MSD1024</li> <li>▶ Cables</li> <li>▶ Adapter for Switzerland/Germany</li> </ul> <p><i>Components can also be ordered separately</i></p>	Q.OWSD457VT5E0	2900 g
	<p><b>Energy meter PN 32 A, LCD with S-Bus</b></p> <ul style="list-style-type: none"> <li>▶ 1-phase energy meter, 230 VAC, 50 Hz</li> <li>▶ MID certification</li> </ul>	ALD1D5FS00A3A00	80 g
	<p><b>Energy meter 3P+N 65 A 2T LCD with S-Bus</b></p> <ul style="list-style-type: none"> <li>▶ 3-phase energy meter, 3 × 230/400 VAC, 50 Hz</li> <li>▶ 2 tariff rates</li> <li>▶ MID certification</li> </ul>	ALE3D5FS10C3A00	190 g
	<p><b>Energy meter 3P+N, 5 A, converter, LCD, S-Bus</b></p> <ul style="list-style-type: none"> <li>▶ 3-phase energy meter, 3 × 230/400 VAC, 50 Hz</li> <li>▶ 1 tariff rate</li> <li>▶ Converter measurement up to 1500 A (1500:5)</li> <li>▶ MID certification</li> </ul>	AWD3D5WS00C3A00	190 g
	<p><b>S0 pulse counter</b></p> <ul style="list-style-type: none"> <li>▶ Recording of S0 pulses</li> <li>▶ 4 S0 inputs (complies with S0 standard 62053-31)</li> </ul>	PCD7.H104SE	170 g
	<p><b>Bus termination</b></p> <ul style="list-style-type: none"> <li>▶ Termination box RS-485 (terminator), galvanically isolated, 230 VAC</li> </ul>	PCD7.T161	80 g
	<ul style="list-style-type: none"> <li>▶ Termination box RS-485 (terminator), galvanically isolated, 24 VAC/DC</li> </ul>	PCD7.T162	80 g

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