

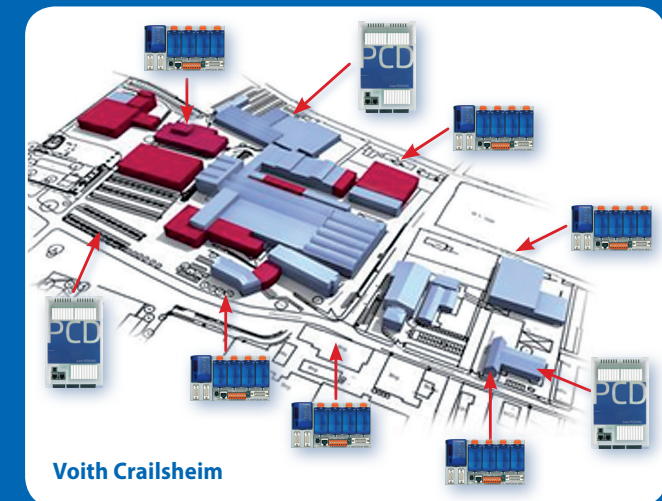
# with SBC S-Monitoring

optimization of resource use



# Industrial facilities

Integrated approach and



Voith Crailsheim

## SBC MB App

Monitoring & control  
with iPhone, iPad and Android

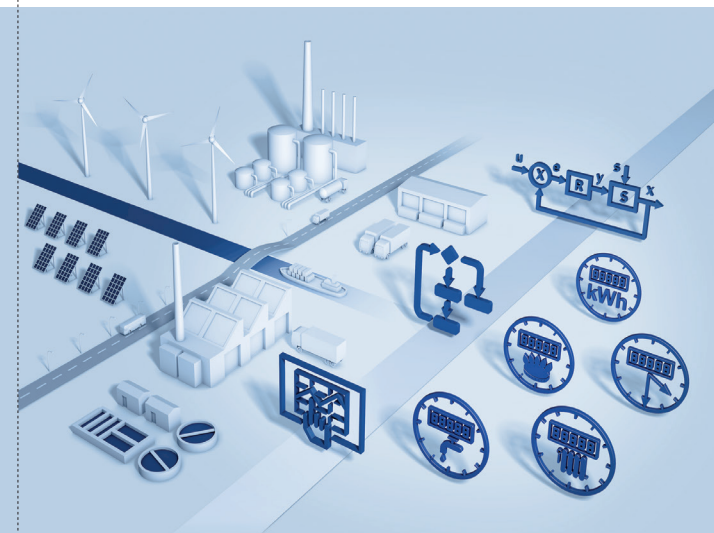


**Transparency and accountability**  
– for everybody, everywhere

All popular mobile devices are integrated into  
the SBC S-Monitoring system. Just download the app.



Ready to use  
out of  
the box



# S Monitoring

System for increasing efficiency in resource use –  
for energy, gas, water, time...

Delivers total transparency on resources and allows  
you to achieve reliable improvements in plant and  
facility efficiency.

Get your consumption under control!



For more than 30 years SBC products have  
formed the basis of ICA/automation solutions in  
industry, providing long life cycles, adaptability  
and expandability. They also form the basis of  
SBC S-Monitoring systems.

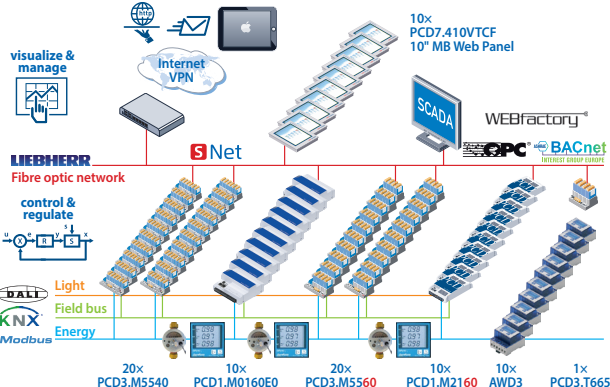
► **Voith Crailsheim**  
keeps its facility under control with  
**80 Saia PCD®**  
(in total, 17,300 physical data points).

- Access monitoring and control with readers  
and door controllers
- Mobotix cameras for monitoring and control  
(test runs, access)
- Recording and analysis of media  
(heat, cold, electricity, compressed air, water)

► **Liebherr**  
controls the entire Eningen site with  
Saia PCD®. The monitoring system for  
resource optimization operates as  
part of «normal» ICA technology,  
which is implemented with Saia PCD®.

- Lighting and shade control
- Regulation of 30 air compressors and  
30 MW heating systems
- Monitoring of 12 tank installations  
(400,000 litres of oil and diesel)  
with 300 gates/doors

## Liebherr Eningen



## Saia-Burgess Controls AG

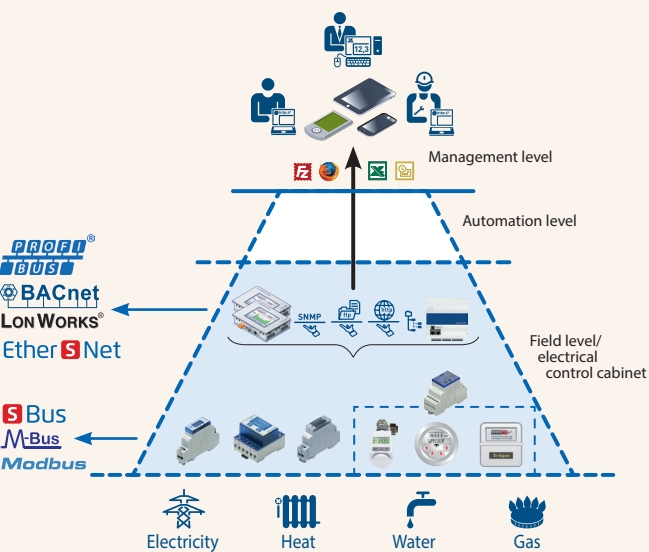
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# SBC S-Monitoring

uses what is available

## ...and can be fully integrated at the automation level!

A SBC S-Monitoring & Control system can be built and operated completely independently of installed automation technologies. However, it may also be coupled easily and securely with virtually any type of existing automation technology. An extension of the ICA system is also possible.



Measurement data can be processed, stored and prepared for visualization directly in the electrical control cabinet. Web and IT technology is already implemented here at the field level, making the data available to all.

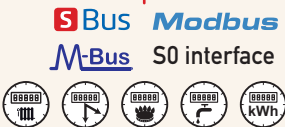
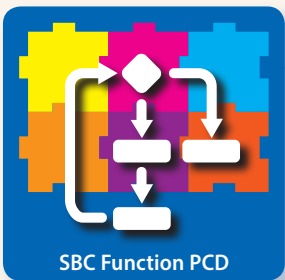
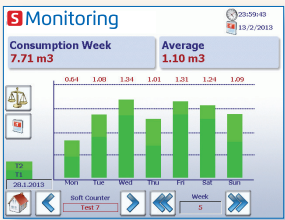
The existing automation level is not affected. This makes it easy and convenient to start optimizing consumption.

However, interfaces do exist to the automation and management levels. This allows for seamless integration into the existing system.

# Strengths of PLC technology

combined with the benefits of dedicated controllers

The heart of an S-Monitoring system is the SBC Function PCD. This is a freely programmable controller that has already been equipped with application software for monitoring. The application can be altered, extended or adapted at any time.



Ready-made functions allow operation without programming

- Automatic visualization of resource data
- Comparison between counters and periods
- Peak detection
- Log in CSV-files
- Automatic data and alarm email

# Example: process industry

Great immediate effect, even without use of software



▲ Facility Manager Edward Simpson carries out in-house optimizations

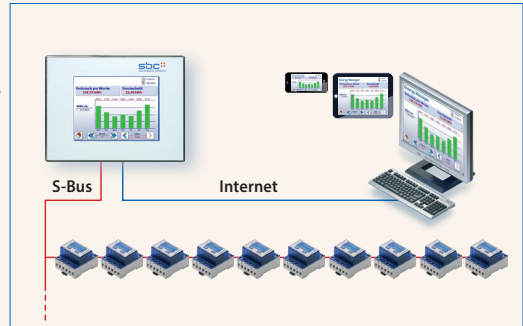
## Optimization of a HEAVAC system through consumption transparency

Parlex, a manufacturer of flexible circuits, is a global company with subsidiaries in the USA, Europe and China. Simply by installing a Saia PCD® Web Panel with S-Monitoring application, Parlex was able to achieve major improvements in resource efficiency.

Facility Manager Edward Simpson carried out in-house installation of the system. No programming was necessary. Due to the transparency of energy data, it was possible to identify HVAC systems as the largest consumers of electricity. The simple separation of two cooling circuits was enough to produce savings of € 100,000 per year

Information Consumption transparency alone allows you to identify resource flows and optimize them. A complicated system is not required.

Ease of installation One Web Panel and 55 energy meters allow control of consumption



▼ Cooling compressors      ▼ Energy meters in the main distribution



# Ways to improve your efficiency

Devices and training to suit your application

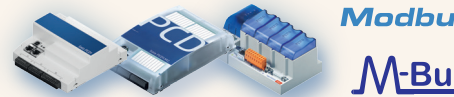
0 Start right away without special knowledge  
► E-Controller and Web Panels ready to use «out of the box»  
► No programming required  
► Direct configuration from touch panel or browser



1 Write first program with Saia PG5® after 1 day's training  
► Extend the S-Monitoring application  
► Log specific data and send via email  
► Adapt web visualization



2 Integrate in 3rd party systems after 1.5 additional days  
► Read data from M-Bus and Modbus devices of any brand  
► Activate operations on the automation level  
► Process data with standard PC software



Smiley face icon: Saia Burgess Controls has a worldwide network of over 500 partners. They can support you from small internal projects to large infrastructure automation projects.