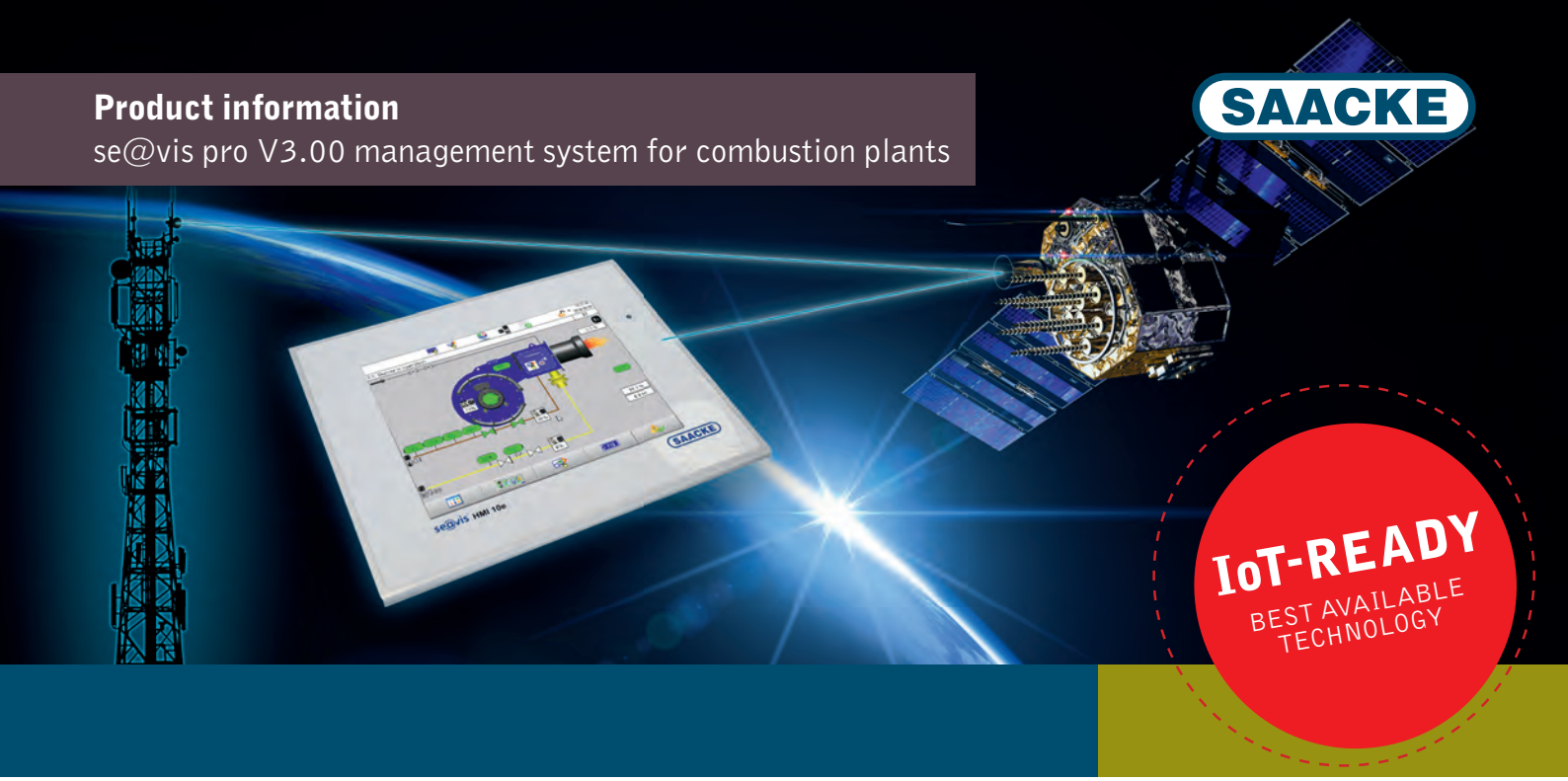
Product information
se@vis pro V3.00 management system for combustion plants



The peace of mind package for your plant

Manager for combustion plants – your smart access to all processes

- Energy and heat supply
- Chemical industry
- Refineries
- Food industry
- Steel and metal production
- Waste incineration
- Building materials industry
- Wood processing

Versatile, reliable, convenient for operators: se@vis pro is the all-rounder among combustion management systems. The intelligent software controls and monitors your entire boiler system, including downstream residual energy users.

Today's combustion plants must meet increased requirements. They should produce more efficiently and flexibly than ever before, achieve maximum efficiencies and be as low-maintenance as possible. As an operator, you face additional challenges because you have to act fast in the market and guarantee maximum availability. Systems that are easy to handle and are guaranteed to function reliably help here.

This is where se@vis comes in! The system greatly simplifies plant control for operators, saving valuable time and freeing up resources. Gone are the days when each plant component needed its own control system – one intelligent combustion manager is sufficient. In addition, integrated functions, various operating modes, extensive data analysis and remote maintenance simplify your operational procedures. System control thought through to the end – with SAACKE Engineering 'Made in Germany'.

All advantages at a glance

- Control and monitoring of all thermal processes and your boiler plants
- 15 integrated controllers for all system functions
- Automatic burner for 3 fuels
- **Simultaneous combustion of 2 out of 3 fuels, also possible with alternative fuels**
- Electronic compound control with 8 channels in 8 operating modes
- Remote control possible on request
- Touchscreen in different sizes for easy and intuitive operation
- Suitable for all system types
- Certified according to SIL 3

se@vis pro 3.0 benefits in detail

Use new standards! It could hardly be more versatile, uncomplicated and efficient. A modern combustion manager simplifies the control of your plant and allows you to plan and utilize your capacities in a more targeted manner.

The plant in focus

Many control systems have a sole focus on combustion. There are other devices for boilers and downstream components – which unnecessarily increases the maintenance effort and complexity of the system. SAACKE se@vis pro controls and monitors the entire boiler system including peripherals. These include the control of the feed water pump station, feed water control, desalination and steam pressure control as well as boiler safety monitoring. This overall view via HMI on the control cabinet or in the control room greatly simplifies maintenance processes. Receive automatic alerts in the event of a breakdown and access your system remotely from anywhere in the world. Or let us do it for you!

Increase plant efficiency

Our experienced engineers respond to error messages and work together with you to increase efficiency or reduce fuel consumption. SAACKE recognizes possible problems in advance and notifies you about them early. Predictive maintenance is thus possible.

On request, you can grant SAACKE access to your own systems via secure remote access, because many problems can be solved remotely with instructions – a lower maintenance effort, which saves money and increases your system availability. SAACKE can also use the data collected in the system to analyze plant behavior and suggest improvements.

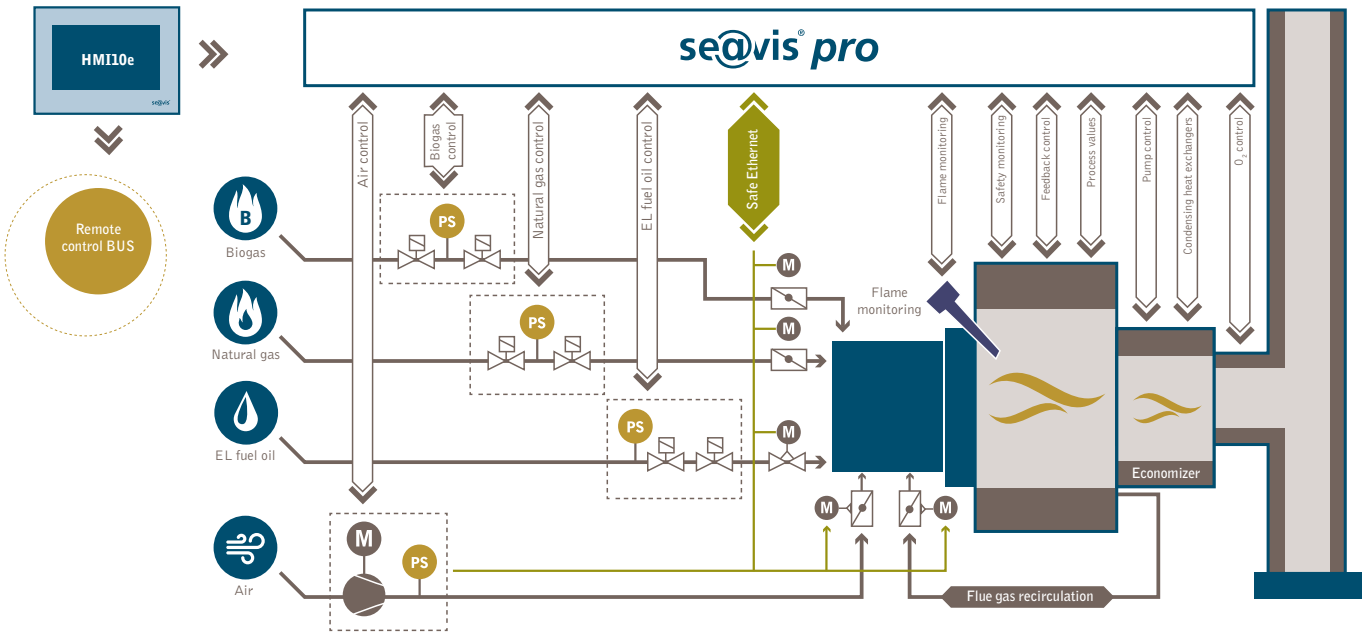
Targeted monitoring of the plant – anytime and anywhere

Get an overview

All process values at a glance – easier and faster with se@vis pro! Each individual value can be selected in the user-friendly interface for more detailed information. In addition, the burner management system offers 15 controllers that can control actuators, fans, dampers, valves or pumps with up to 2,000 control steps. They are individually pre-configured by SAACKE according to customer requirements. This reduces the engineering effort on site, improves visualization on the screen and standardizes the commissioning of the systems – this significantly reduces your costs.

Thanks to their many years of experience with burners and boiler systems, SAACKE engineers have standardized and optimally designed functions so that no special programming effort is required by you. This allows you to convert your plant operation with minimum downtimes and maximize plant availability. Of course, it is always possible to readjust as required.

Schematic structure of a plant



Burn fuels simultaneously

se@vis pro is designed for the simultaneous combustion of 2 out of 3 fuels. In combustion procedures from production processes with fluctuating calorific values, such as furnace gas, molasses or biogas, secondary fuels such as natural gas are often added in order to compensate for combustion output if necessary. SAACKE's combustion management independently detects missing quantities and supplies the corresponding fuel for the necessary calorific value. The result: a reliable and safe to operate solution. se@vis can process up to 3 different fuels in total. Depending on the fuel, it can be changed without any loss of performance.

Individual operating modes

Depending on the time of day and processes, the demand for thermal energy can vary. The intelligent burner control unit simplifies monitoring for you. Plan 7 days a week, each with 3 different load levels or operating modes. Simple, fast and reliable. se@vis pro can be operated in 4 different operating modes per day for the whole week with different load levels and settings, exactly matched to the time. All control parameter sets are individually adjustable. Thus, for example, changing load stages can be driven as required. The entire control is automatic – and brings you one step closer to a smart factory!

Safe plant operation

se@vis pro is connected to all safety devices on the burner, the air supply, the fuel supply and the boiler and continuously monitors them. In the event of a breakdown, the system guarantees a safe shutdown and thus enables rapid trouble-shooting. The optimized alarm system, clearly displayed in the HMI, reduces downtimes during plant shutdowns and contributes to rapid troubleshooting. Guaranteed safety thanks to extensive certifications – trust in SAACKE!

The technology in se@vis pro

The system consists of the base unit FSC, the HMI operating unit and up to 8 servomotors in combination. As an option, the fan can be integrated into the compound. The individual components are connected to each other via Safe Ethernet. A bus coupling allows for integration into the process control technology and thus remote control. The electronic compound control has 8 channels in 8 operating modes.

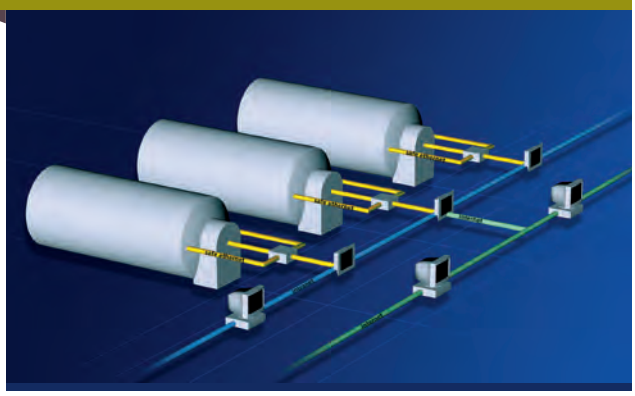
Technical data

Controller	15, freely configurable
Input	analog and digital process values
Interfaces	Profibus DP, Profinet IO, Modbus FCP, Modbus RTU, Ethernet IP
Accuracy	network participant: 2,000 steps
Touchscreen	different sizes for easy and intuitive operation

Conclusion

The combustion management system saves operating costs, facilitates maintenance and handling, minimizes downtimes and increases your operational safety. A system for your entire plant, quickly set up and optimally designed. Including simultaneous combustion and various automatic systems – that makes se@vis pro unrivalled worldwide. And thanks to various certificates, SAACKE guarantees that you are on the safe side. Safe, versatile and amazingly simple – take another step into the future with SAACKE and se@vis pro!

Network integration

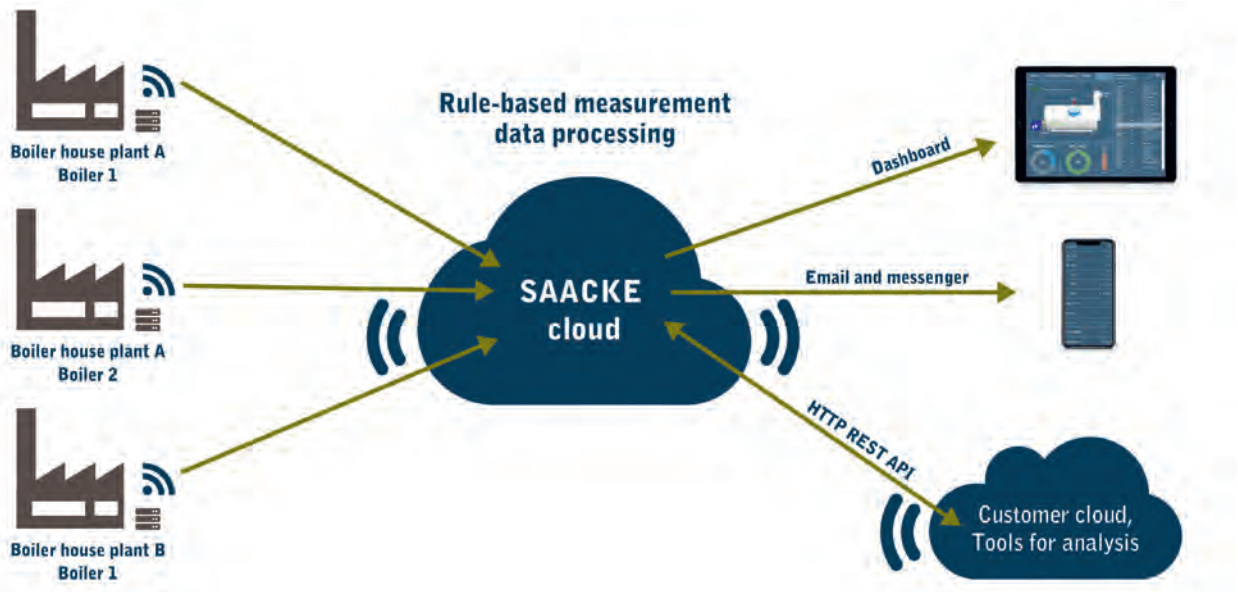


se@vis pro 3.0 can be optimally integrated into the plant network

Certifications

Pressure Equipment Directive 2014/68/EU
EU Gas Appliances Regulation (EU/2016/426)
AGA Australian Gas Association
Basis of examination:
DIN EN 50156, DIN EN 298, DIN EN 12067-2, DIN EN 1643, DIN EN 267, DIN EN 676, DIN EN 12952-8, DIN EN 12953-7, TRD 411, TRD 412, TRD 604, Bl. 1/2

SAACKE Smart Control – the future of system control with se@vis pro



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