

se@vis[®] compact

Burner Management System



Compact burner control system and visualization

se@vis[®] compact offers the range of functions and the advantages of a “large” control unit in a small package. It allows you to control even extensive process firings safely, accurately, and cost-effectively, without having to forgo the convenience of the system visualization. The integrated touch screen displays relevant information and allows the simple and quick operation of the complete firing system.

The FSC basic unit and the HMI touch screen form the fundamental elements of the control unit. In the basic version, they feature 5 failsafe channels, 4 operating modes, and 2 integrated controllers. The 5 channels are each so finely designed with 2000 increments that air dampers, fuel valves, and the fan speed can be set particularly accurately. The drives are se@vis[®] FSM actuator torques, which can be exchanged quickly and with no possibility of error thanks to integrated electronics and a newly developed drive shaft.

The 3.5” touch screen visualizes, for example, steam pressure or supply temperature, burner capacity, or the O₂ content of the flue gas. However, the collected data are not just displayed: a press of a button provides you with trends and information on operating hours or burner starts per day. The similarly integrated initial value fault message system documents fault messages and makes troubleshooting in the system quick and efficient.

Even in the basic version, se@vis[®] compact is astonishingly multifaceted and suitable for almost any application.

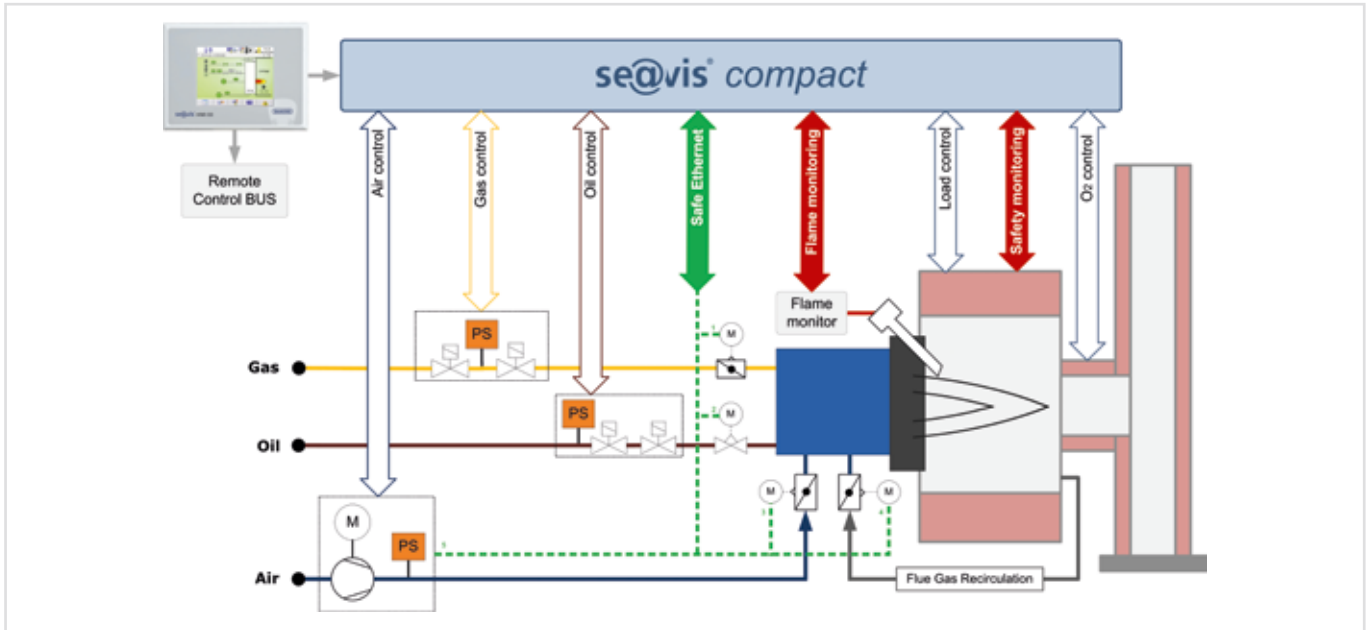
For example, it contains a cooling program for systems in which the burner needs to be protected against the heat radiating from the furnace, or it can warm heat generators gently and thereby considerably extend the service life of the system.

If required, se@vis[®] compact can be expanded to the next-largest control unit, se@vis[®] pro, without any problems and then opens up numerous options such as simultaneous firing or coal dust firing. As all se@vis[®] versions, se@vis[®] compact also complies with the Pressure Equipment Directive and the Gas Appliance Directive and guarantees certified safety with SIL 3 according to IEC 61508.

For further information, please visit:
www.saacke.com

se@vis[®] compact

- Suitable for all SAACKE burners
- 3.5” touch screen enables simple operation and clear overview
- Automatic firing sequence controller for 2 fuels with 4 operating modes
- Electronic fuel / air ratio control with up to 5 channels
- 2 integrated controllers for capacity and O₂ content in flue gas
- Integrated operating and initial value fault message system reduces service costs
- Controls water injection in heavy oil firing operation mode
- BUS coupling for uncomplicated mounting in process control systems and remote control systems
- Certified safety with SIL 3 according to IEC 61508



Certificates / Test regulations:

- EC Gas Appliances Directive (2009/142/EC)
- EC Pressure Equipment Directive (97/23/EC)
- SIL 3 according to IEC 61508
- DIN EN 230
- DIN EN 298
- DIN EN 1643
- TRD 412
- DIN EN 12952-8
- DIN EN 12953-7
- DIN EN 746-2
- DIN EN 50156-1
- DIN EN 12067-2

se@vis compact	se@vis pro	
•	•	Automatic firing sequence controller
•	•	Electronic fuel/air ratio control
•	•	Chinese and Cyrillic characters
•	•	BUS coupling and remote control
•	•	Integrated O ₂ controller
•	•	Integrated capacity controller
•	•	Integrated valve proving system
•	•	Integrated initial value fault message system
•	•	Capacity limitation in cold boiler
•	•	Adjustable ignition periods and purge periods
•	•	Start without prepurging
•	•	Integrated cooling programs
•	•	Operation and commissioning via touch screen
•	•	Simple, rapid testing by experts
•	•	Flue-gas recirculation control
•	•	Integrated blow-out logic for steam pressure atomizer burners
•	•	Water injection in heavy oil firing operation mode (option)

se@vis compact	se@vis pro	
•	-	3.5" color touch screen
-	•	10.4" color touch screen
•	•	Change of operation mode without "Burner off"
-	•	Fuel change via pilot burner
-	•	Fuel change without load dropping
-	•	Additional fuel and staged simultaneous firing
-	•	Variable simultaneous firing with 2 or 3 fuels
-	•	Coal dust firing and biogas firing
-	•	Display of process values for e.g. pressure and temperature
-	•	Control of oil/feedwater/circulation pumps
-	•	Control of flue gas/eco/boiler damper
2	3	Number of fuels
4	8	Number of operating modes
5	8	Number of fuel/air channels with 2000 digits
2	10	Number of integrated controllers
1	2	Number of additional correction inputs (e.g. heat value)
3	21	Number of I/O modules