Compact burner control system and visualization

Clear presentation of all thermal processes

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 8 failsafe channels, 4 operating modes, and 4 integrated controllers. The 8 channels are each so finely designed with 2,000 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”, 5.7” or 10.4” touch screen visualizes, for example, steam pressure or supply temperature, burner capacity, or the O₂ content of the fluegas. 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 until SIL 3.
Schematic plant structure

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 compact

Rule-based measurement data processing

Dashboard
Email and messenger
HTTP REST API
Customer cloud, Tools for analysis