

**se@vis[®] Burner
management
– online!**



Safe and simple – se@vis®

At the forefront in industrial combustion technology, SAACKE devotes substantial time and resources to intensive, continuous product optimisation. For generations, the innovations from our Research and Development Division have been a constant source of momentum for worldwide progress in the field. And now: **se@vis®**, the new SAACKE burner management system – a benchmark in firing plant automation that opens the door to a whole new dimension in safety and dependability ... and puts it literally at your fingertips.



One single connection for

se@vis® Burner Management

- for any firing system, on land or at sea
- the latest in PLC technology
- automatic firing sequence controller and electronic compound control
- intelligent initial signal processing
- data logging for selected process variables
- complex control functions and flexible communications options
- operations management by intranet/internet from the location you choose
- every component type-approved

se@vis – safe ethernet and visualisation – finally creates an ethernet connection between the control system and the combustion process you can rely on. All of its sensors and actors are fail safe bus-connected. With a single touchscreen you can now operate and parameterise your entire plant and optimise its performance at ease from one location. Simple? Yes – and safe!

all of your control processes

ernet

Burner



se@vis Fail Safe Motor (FSM)

Introducing: the intelligent motor from SAACKE.

Worldwide, only **se@vis** can offer you the precision and security of positioning a fail safe motor via a safe ethernet connection. And under the severest conditions. Industry standard plug-in connectors make it quick to install and resistant to the most harmful environments, no matter where you need to rely on it.

The fail safe motors are available in different ratings to suit your application, with onboard motor electronics and an extensive range of diagnosis functions.

TÜV certified security
... perfection to a T.

SAACKE

Combustion and Energy Systems

se@vis® – your mobile control room

se@vis® Human Machine Interface (HMI)

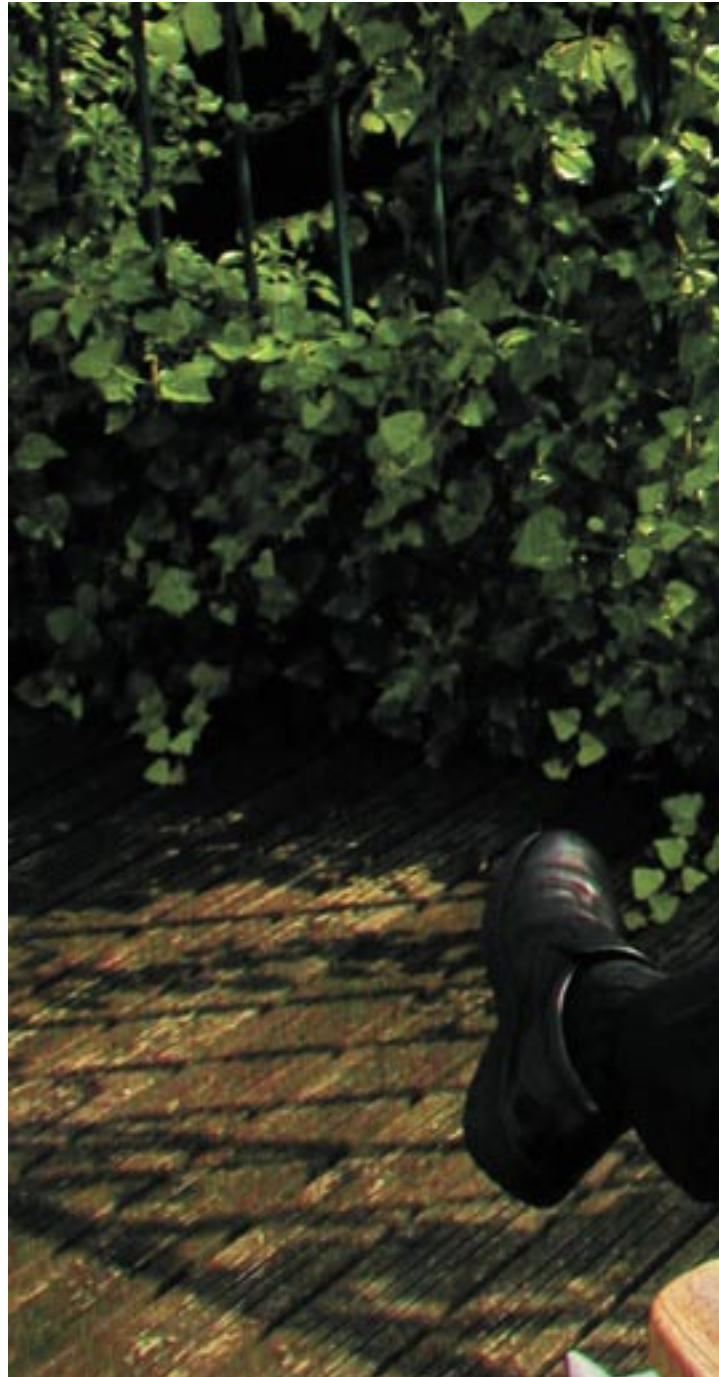
The se@vis HMI brings you perfection in technology and convenience all in one. All of your process and operations data at a glance on a high-resolution colour display on site – and accessible from wherever you happen to be online at the same time. The menu-driven interface provides information on all of the current process dimensions such as operating conditions, parameters or alarms. The process itself, the parameters and the controller setpoints are at your instant command on the touchscreen. Thanks to the onboard webserver, access to any computer with an internet connection will put you in remote control of every function in your process.



- webserver function for process monitoring and control via any standard internet browser
- multi-layer security architecture to prevent unauthorized access
- different interfaces for data exchange with higher level control systems or peripheral plant components
- aside from ethernet - Modbus, CAN, PROFIBUS and other protocol support as well

And since it's from SAACKE, of course the se@vis HMI meets the stringent requirements of the major marine classification societies on EMC, vibrations, temperature and climate.

Tested under the severest conditions.

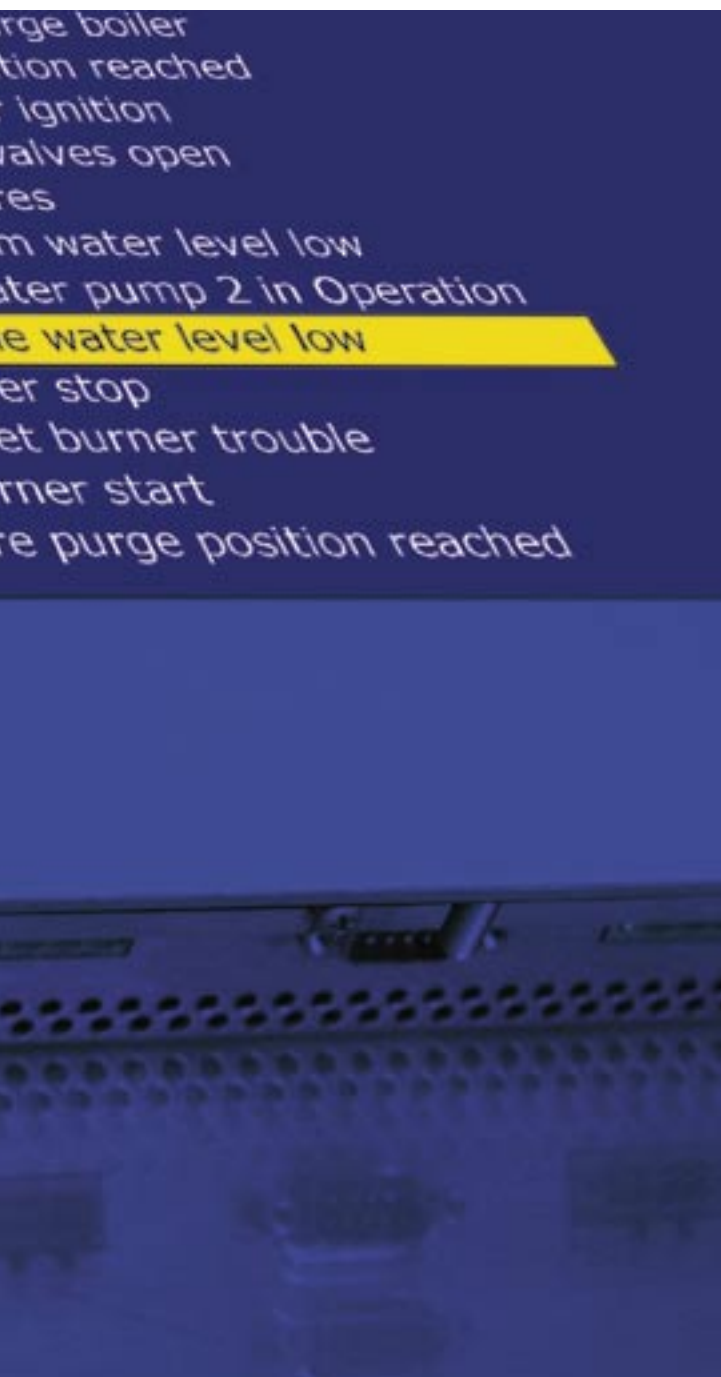




se@vis® – the quickest way from “trouble”



to “reset”



Maximum plant reliability and minimum downtimes? Reality – with **se@vis**. The maintenance assistant notifies you immediately which plant components need to be inspected, serviced or replaced. The **se@vis** initial fault message system pinpoints the cause of the “trouble” in a flash so that the right thing gets the right attention, right away. Your **se@vis** can also email the important information you want such as trouble messages and limit values to your control location, no matter where in the world it happens to be.

With **se@vis**, nothing gets lost. Power failure protection makes sure all of your operations data and fault report protocols are archived and safe for future reference.



Tele Support & Service

se@vis is also your hotline to the specialists at SAACKE. That “worst-case scenario” you thought was impossible is as easy as A-B-C for its remote diagnosis function. Log in or dial up for on-the-spot support and let us correct your plant settings or parameters for you – online!

Reduce your downtime – optimise your plant availability rate.

se@vis® – the more you need it, the smarter

se@vis® is easy to install and quick to customise. The systems architecture is modular and can be expanded almost beyond scope to handle any burner management task. We've designed the se@vis® IO and FSC-IO modules so that it can be tailored to any burner-boiler configuration and integrate countless control processes such as

- burner sequence actuation
- automatic pump changeover
- feedwater treatment
- boiler water level control
- fuel supply system control
- heating tracer control
- ... and many more required by your specific process



se@vis® Fail Safe Control (FSC)

Your key to the future – se@vis® FSC, the high-speed safety-related cornerstone component of your firing system that guarantees you fail safe automatic firing sequence and electronic compound control. In addition to the basic parameterisable criteria such as your particular burner model, the fuel, the leakage test and the safety times, you can also choose from a wide selection of complex operations such as multi-fuel mode, flying fuel changeover or master/slave boiler sequence control.

Flexibility perfected – by SAACKE



it gets

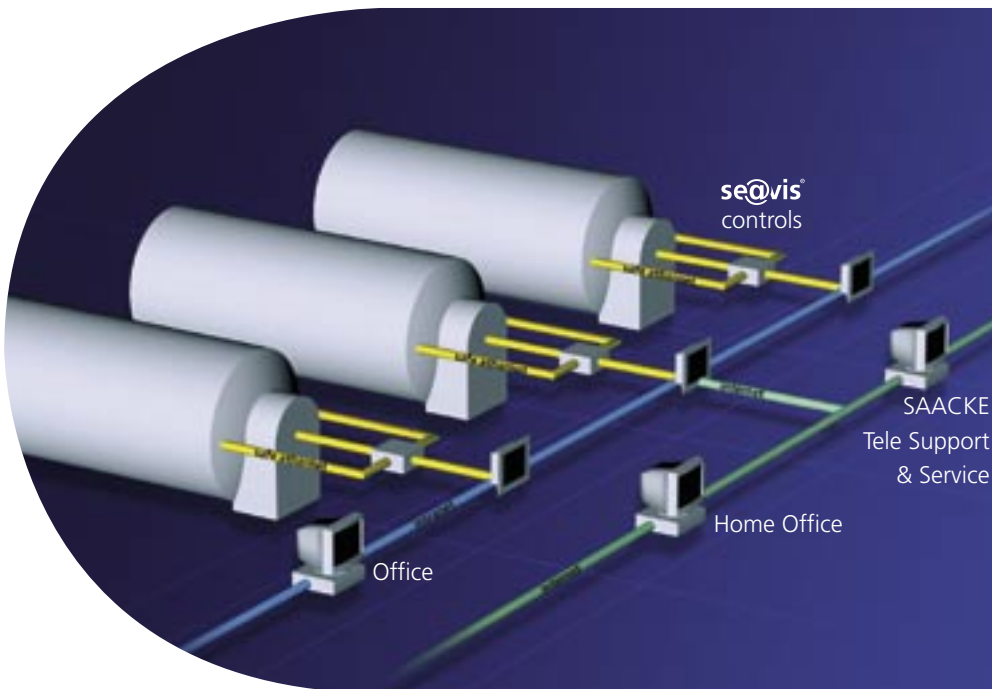


Combustion and Energy Systems

The plant model with a future – se@vis® at a glance

Your existing firing plant can also be upgraded with the appropriate components from the SAACKE Plant Modernisation System. Adding **se@vis®** to your retrofit concept from the start will open vast options for your plans in the future.

Set up your mobile control room wherever it is convenient and rely on SAACKE Tele Support & Service for surveillance, remote diagnosis and troubleshooting – with **se@vis®**. Your annual report will prove it was a good investment.



Get a head start with se@vis®:

- maximum plant reliability from the latest in hitech
- minimum assembly time and expense
- control and surveillance from the location of your choice
- instant remote diagnosis by Tele Support & Service
- minimum downtimes
- maximum cost-effectiveness
- compliance with future environment regulations
- maximum security for your investment

You can count on our service

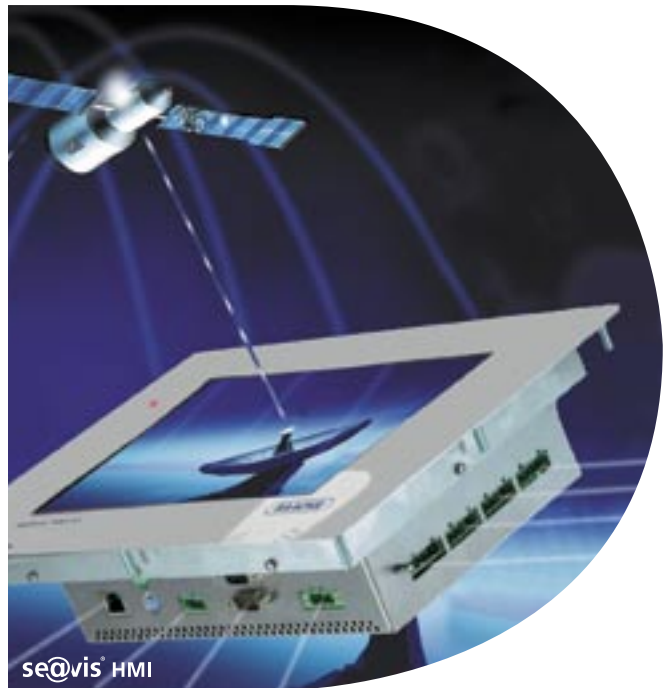
With SAACKE production facilities and service outlets in 20 different countries and another 70 international SAACKE contact offices around the world, customer satisfaction at SAACKE is a policy backed by numbers. Wherever you need us, we're there to help you – with the skill and speed only experts can provide.

Backed by remote diagnosis via our worldwide networked Tele Support & Service, a maintenance and repairs staff with the logistics of a global player at their command is within reach anywhere – whether for comprehensive on-site assembly and commissioning of your new firing plant ... or to guarantee that it will continue to give you top-notch performance, year in, year out.

As a SAACKE customer, not only can you count on rapid repairs or a full replacement for your SAACKE burner with a minimum downtime – when you make SAACKE your service provider your individual contract can be tailored to your specific needs from a wide selection of services. You can opt for regular maintenance of your burners ... optimisation of their performance in your particular process ... training for your boilerhouse staff ... safety inspections to TRD – or even contract our Service team to manage your entire boilerhouse operation for you. Put your plant reliability rate in our hands and see the results!

A SAACKE firing plant is a versatile system – and so is the service that comes with it. Call up or log in and order whatever feature of our Service system you need, when you need it. And we will provide it – where you need it.

SAACKE Service is there for one purpose: to make sure your firing plant gives you dependable performance for years to come. To protect your investment, to safeguard our environment – and to prove we know our business.



- 24/7 service hotline
- remote diagnosis from our Tele Support & Service
- training for your staff on your own site or at SAACKE
- SAACKE affiliates, production facilities and Service outlets in 20 countries
- 70 more SAACKE contact offices around the world

SAACKE

SAACKE GmbH & Co. KG
 Südweststrasse 13 · 28237 Bremen
 GERMANY
 Phone: +49 - 421 - 64 95 0
 Fax: +49 - 421 - 64 95 224
 E-Mail: info@saacke.de
 www.saacke.com

SAACKE
— SERVICE —

SAACKE Service GmbH
 Südweststrasse 13 · 28237 Bremen
 GERMANY
 Phone: +49 - 421 - 64 95 0
 Fax: +49 - 421 - 64 95 244
 E-Mail: service@saacke.de
 www.saacke.com

SAACKE-Hotline: +49 - 421 - 64 95 201

SAACKE ROSSPLET S.A., ARGENTINIEN

Tel.: +54 - 11 - 49 11 14 80, Fax: +54 - 11 - 49 12 30 41

SAACKE AUSTRALIA Pty. Ltd., AUSTRALIEN

Tel.: +61 - 2 - 96 36 77 77, Fax: +61 - 2 - 96 31 34 13

SAACKE Belux, BELGIEN

Tel.: +32 - 3 - 88 61 100, Fax: +32 - 3 - 88 61 226

SAACKE do Brazil, BRASILIEN

Tel.: +55 - 11 - 34 43 70 06, Fax: +55 - 11 - 34 43 66 01

SAACKE S.A.R.L., FRANKREICH

Tel.: +33 - 1 - 48 48 20 54, Fax: +33 - 1 - 48 47 73 66

SAACKE Ltd., GROSSBRITANNIEN

Tel.: +44 - 23 - 92 38 31 11, Fax: +44 - 23 - 92 32 71 20

SAACKE Baghdad Representative Office, IRAK

Tel.: +964 - 1 - 5521642, Fax: +964 - 1 - 7747412

SAACKE JAPAN TRATEC Ltd., JAPAN

Tel.: +81 - 3 - 33 39 12 11, Fax: +81 - 3 - 33 39 75 77

SAACKE Benelux, NIEDERLANDE

Tel.: +31 - 33 - 43 30 014, Fax: +31 - 33 - 43 30 016

SAACKE Ges.m.b.H., ÖSTERREICH

Tel.: +43 - 1 - 86 93 345, Fax: +43 - 1 - 86 93 34 530

SAACKE Polska Sp. z o.o., POLEN

Tel.: +48 - 71 - 36 81 865, Fax: +48 - 71 - 36 08 929

SAACKE Moskau Representative Office, RUSSLAND

Tel.: +7 - 095 - 7 89 31 17, Fax: +7 - 095 - 9 80 99 20

SAACKE AG, SCHWEIZ

Tel.: +41 - 1 - 82 15 656, Fax: +41 - 1 - 82 15 644

**SAACKE Belgrade Representative Office,
SERBIEN UND MONTENEGRO**

Tel.: +381 - 11 - 301 73 35, Fax: +381 - 11 - 301 73 36

SAACKE ESPAÑA, SPANIEN

Tel.: +34 - 976 - 25 87 51, Fax: +34 - 976 - 25 87 52

SAACKE South Africa (Pty) Ltd., SÜDAFRIKA

Tel.: +27 - 21 - 94 53 806, Fax: +27 - 21 - 94 53 808

SAACKE TURKEY LTD. Sti, TÜRKEI

Tel.: +90 - 216 - 34 93 112, Fax: +90 - 216 - 33 03 778

**SAACKE Energy Systems (Shanghai) Co., Ltd., VR CHINA
Shanghai Office**

Tel.: +86 - 21 - 63 60 34 89, Fax: +86 - 21 - 63 60 34 33

**SAACKE Energy Systems (Shanghai) Co., Ltd., VR CHINA
Beijing Office**

Tel.: +86 - 10 - 85 27 60 76, Fax: +86 - 10 - 85 27 60 78