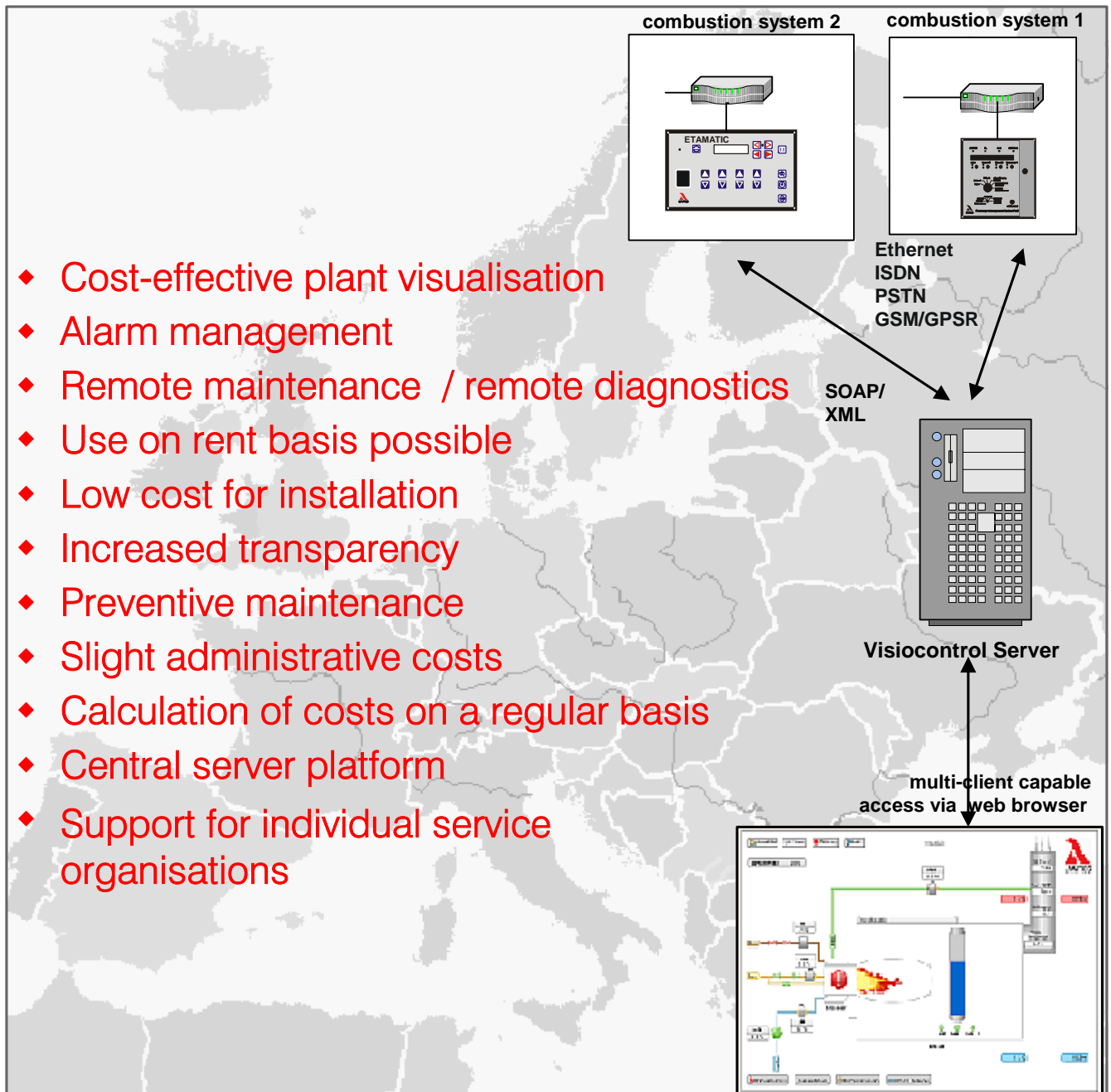


# Visiocontrol

Visualisation and Remote Monitoring for Industrial Combustion Systems



In Visiocontrol, LAMTEC is able to provide an innovative server solution which facilitates bidirectional connections with decentralised installations swiftly and without complication. In the field of heating technology, no other solution offers the option of maintaining contact with several hundred installations in parallel, thereby making up-to-date information constantly available.

**Visiocontrol offers you three major advantages:**

- Strengthening of your links with customers as a result of improved service
- Expansion of your service portfolio by adding on extra systems
- Provision of state-of-the-art plant visualisation for your customers.

**No expensive control technology installation requirement. All you need is Internet access and your usual web browser.**

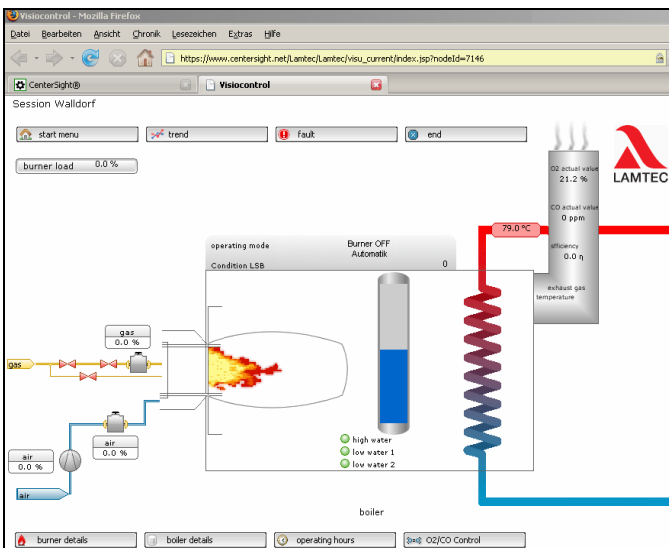
The integrated alarm management system facilitates rapid, strategic responses by you and your customers. Important messages from the installations are received via SMS, fax or e-mail, so you receive continual updates regarding the functional status of the heating installations you maintain.

You can access your plant via the Internet for visualisation, for diagnostic purposes or for analysis of malfunctions; all the relevant data can be pulled off in an easily comprehensible format, irrespective of the time or location.

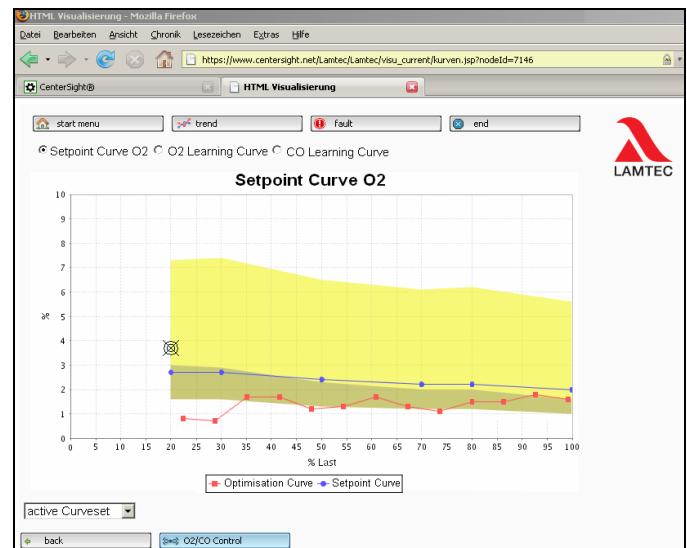
We offer you a modern software solution capable of meeting the most exacting requirements in terms of remote maintenance, visualisation and plant management. Exploit the opportunities offered by a forward-looking management system allied with the global network of the Internet.

This platform provides benefits for both plant construction companies and for operators. While operators are often concerned primarily with the need to visualise plant data and monitor efficiency, the plant construction companies benefit chiefly from the advantages relating to service and remote maintenance.

As a result of the continuous recording of important plant data and automatic report generation, it will be possible for you to produce new mathematical models for your installations



Example: Visualisation of a firing system



Example: graphical presentation of the CO-regulation

## System architecture

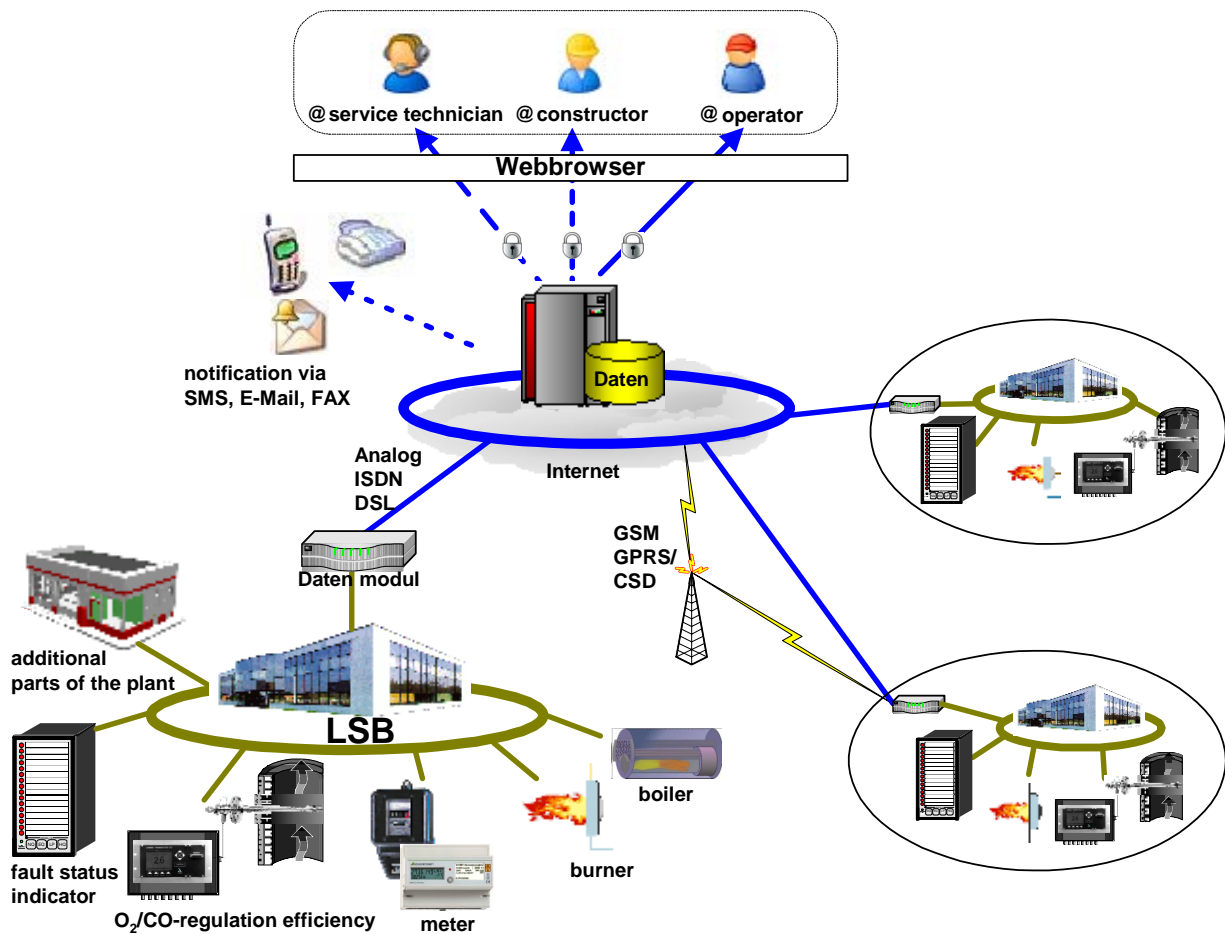
The system architecture is based on the central server platform Visiocontrol, to which you can link as many independent heating installations as you wish. The data are supplied by a LAMTEC data module connected to the furnace control equipment. This enables both the installation supplier and the operator to obtain an all-embracing view and to take action in relation to the particular production location. All that needs to be done locally is to set up an Internet connection.

**Ideal for decentralised installations** This initiative is of particular interest as a solution for companies who wish to manage decentralised installations inexpensively using automation. In areas such as alarm function, real-time monitoring, analysis of current operating data and planning of maintenance and service, such a solution offers an extremely

attractive opportunity for cost savings while at the same time providing increased transparency. It therefore constitutes the ideal support for your service and maintenance organisations.


### Safe access via HTTPS

Access by the user is centralised via the web portal [www.visiocontrol.net](http://www.visiocontrol.net). All that is required is a web browser. User administration takes place centrally on the Visiocontrol server. The user is granted the specific access rights to which he is entitled – you can, for example, determine which of your employees or your customer's employees are to receive automatic notification via e-mail or SMS in the event of a malfunction, or who is to receive particular data concerning the installation. Unauthorised access by third parties is barred, preventing misuse of data.




## Applications


### Plant administration:

 The status of all installations connected to the system can be seen at a glance. It is possible, for instance, to pinpoint all production locations on maps. Current status is shown by symbols of different colours. For each installation, you can set up as many users as you like, with an extremely wide range of authorisations.


### Analysis:

 All documented data points and processes can be called up in Visiocontrol, specific either to individual plants or to groups of plants. By determining consumption in the plants, it is also possible to provide a calculation of costs on a regular basis.


### Scheduler:

 Visiocontrol has an integral scheduler capable of triggering actions on either a regular or an ad hoc basis. This means that functions scheduled to take place locally are administered centrally by the scheduler. For example, a status report in pdf format can be generated and circulated on a regular basis, or reminders for maintenance and testing work can be issued. A heating log also forms an integral part of the scheduler.


### Alarm management:

 Using Visiocontrol, you can receive warning messages, forward them to specific recipients or initiate warning messages and send them to various recipients. In addition, critical threshold values can be defined individually in order to trigger subsequent responses. In the event of an alarm, for instance, this facility can be used to send SMS messages, e-mails or voice messages with an appropriate description of the malfunction. It is also possible to store stratified plans and to define escalation steps.

### Central document management:

 Documents pertaining to the plant, such as service reports, maintenance schedules, spare parts lists, etc. can be administered centrally on the server.

### Visualisation:

 In addition to historical data, Visiocontrol has information on the current status of all data points of the heating plants connected to it. An integral visualisation tool enables strategic call-up of data relating to a specific installation, and the current status of various aspects of that installation can be reproduced and visualised in a variety of graphics.

## A complete service package

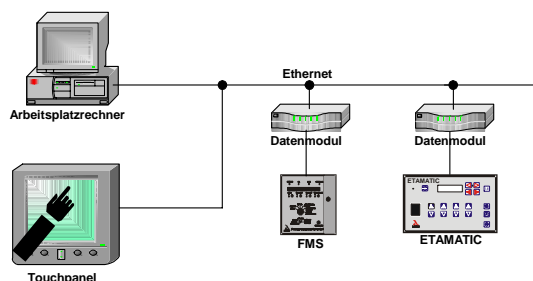
Lamtec offers a complete product and service package which is available for use on the basis of a monthly fee per installation. The service includes standard visualisation of the installations, connection to Visiocontrol and provision of access to the portal with the applications described above. Despite the high level of standardisation, the user need not dispense with individual customisation. Generation of individual graphics tailored to customer requirements is also possible, as is inclusion of additional parts of the plant and different production locations belonging to the customer which do not necessarily have anything to do with the heating installation.

## Upgrade capability

Although in the standard version Visiocontrol is more than capable of handling the most common applications from beginning to end, indicators and graphics can be modified or expanded quite easily. Even sections of the installation outside the heating plant can be incorporated within this innovative design concept. You have the option to arrange for these amendments to be implemented by Lamtec or to offer them yourself as a service to your customer.

## Visualisation on the ground

In addition to administration and visualisation of installations via the Internet, a local version of the service can also be supplied, enabling your customer to receive a state-of-the-art visualisation of his heating plant. It is therefore possible to obtain a visualisation of the plant, including all the applications additionally available via the Web, as a local version, either directly inside the heating plant itself or in the control room of the production location. Once again, all you need is a PC with a standard web browser and the Lamtec data module.



*The visualisation can be realised with PC or touch-panel, local or via internet.*