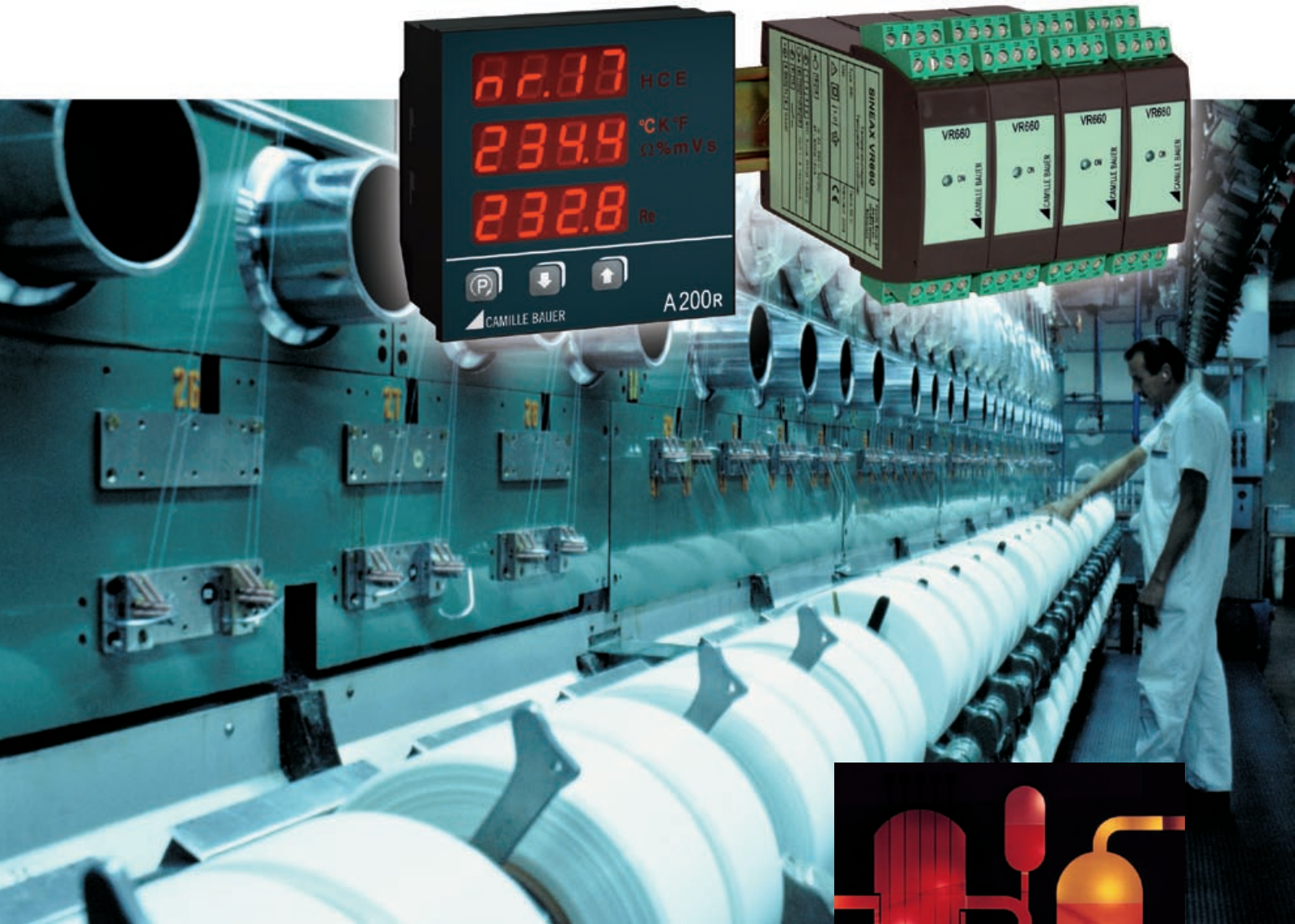




Modular temperature controller system

SINEAX

Modular controller system



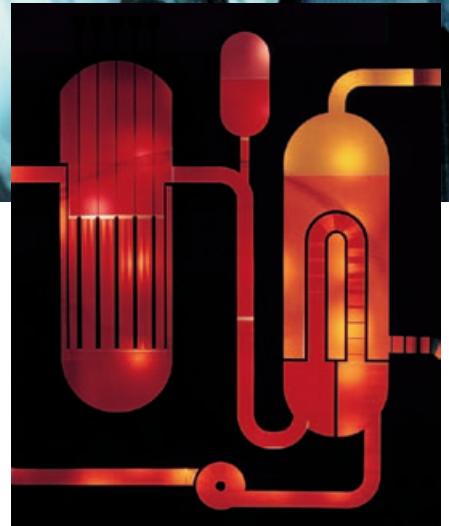
Camille Bauer's temperature controller system in modular design offers the highest possible flexibility at maximum functionality. Depending on the user's requirements, 1 to 32 control circuits connected to each other via an internal bus are available. The visualising unit (A200R) provides an autarkic system and offers on-site operation.

Features

- Independent controller components
- Easy to remove
- Ergonomic/event-oriented on-site visualisation
- On-site operation
- Space-saving
- Comprehensive operating concept (from 1-channel to multi-channel controller system)
- Precise and harmonic-free PDPI control algorithm
- Complete pertaining sensor program

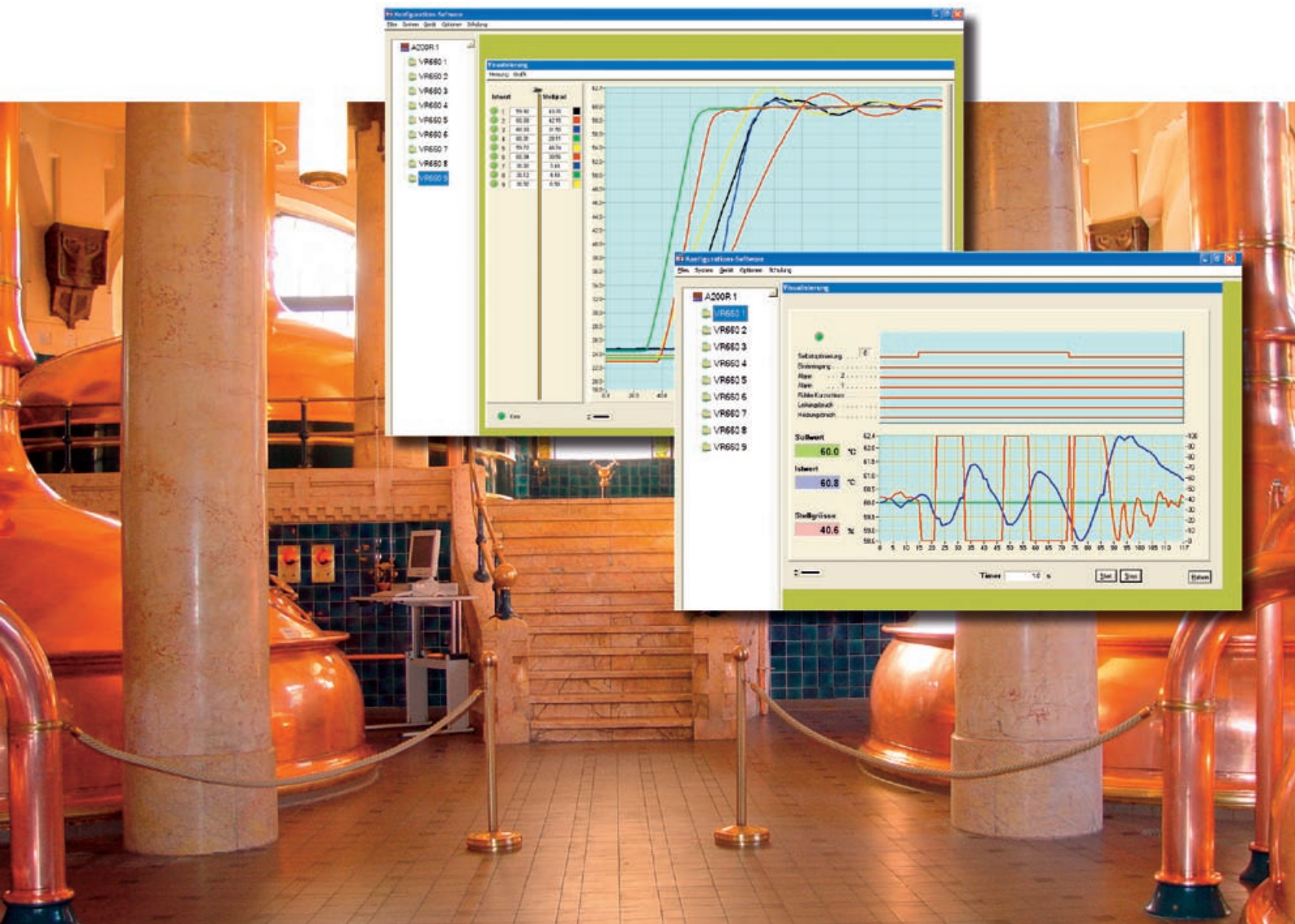
A complete system consists of:

- 1 to 32 temperature controllers VR 660
- The display and operator device A200R
- The configuration and service software CB-Manager



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For ideal solutions



VR 660 control units offer extensive control functionality.

PDPI control properties

The PDPI control properties were particularly developed for temperature control paths. PDPI unites the advantages of both PD and PID control properties while avoiding their disadvantages. The dynamic properties correspond to PD properties and the additional integral part completely settles the remaining control deviation typical to PD properties. This achieves a very fast and harmonic-free start-up, since the controller strongly reacts to large initial setpoint deviation. PDPI control properties are distinguished by the fact that only one controller setting settles both the

effects of interference and setpoint changes without harmonic and pendulation.

Two-position controller

A two-position controller activates a controlling element with ON and OFF signals respectively. The control algorithm is such that the actual value adjusts itself to the set point without harmonic.

Three-position controller

A three-position controller is employed if a process requires three control statuses. There are processes which need to be heated, but at times also cooled. The three control statuses are HEATING, OFF, COOLING.

Second setpoint

Conservation of energy is achieved by specifying a lower setpoint during production

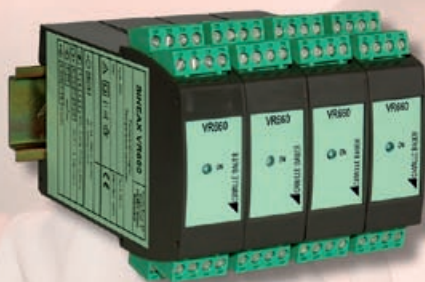
intervals. This second setpoint is activated via the binary input.

Heating loop monitoring

The heating circuit is monitored without any additional hardware. When the heater is on 100%, the controller determines the rise in temperature and indicates a heating loop error if it occurs.

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The modules of the controller system



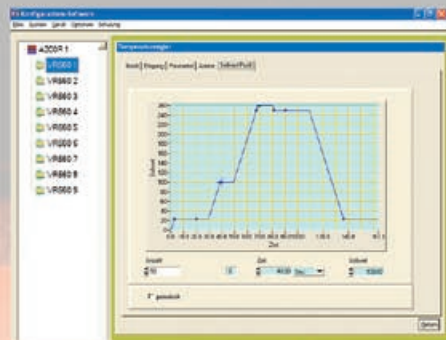
SINEAX VR 660

VR 660 is a universal 1-channel temperature controller for top-hat rail mounting. Several independent temperature controllers may be used in a control cabinet. All of them have a common serial bus interface to the separate A200R display and operating unit to visualise and set the individual temperature controllers. The controllers work independently, also without A200R – in which case they may be configured via the bus interface.



SINEAX A200R

A200R provides visualisation of measured values, parameterisation, and the installation as well as monitoring of smaller bus systems. A200R grants indirect access to connected devices via the integrated RS232 interface. Using the configuration software A200R and each connected device can be configured.



CB-Manager

The configuration software offers free access to A200R (bus master) and thus to the temperature controllers or direct access to the temperature controllers. Parameters may be read by the devices or stored in the devices. Device data can also be stored in files or read by files. The software serves visualising, commissioning and servicing of the devices.

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