Bus Module Controller BMR
Compact, efficient, user-friendly

kieback&peter

Technology for Building Automation

Bus Module Controller BMR
All-purpose – easy to operate

The Bus Module Controller BMR is a compact controller for controlling, operating, monitoring and optimization of heating, ventilation and air conditioning systems. The BMR is a freely programmable controller, which makes it flexible and multi-purpose.

Additional software objects enable the BMR to be individually adapted to meet the different requirements of systems and locations. The controllers can be mounted in service cabinets using a standard DIN rail. Pluggable clamps allow for easier cabling and connection.

The inputs and outputs can be expanded by function modules (BMF) and universal fieldbus modules (FBU). Remote installation of the FBU is possible. The FBU communicates via CAN bus with the BMR and is cascadable.

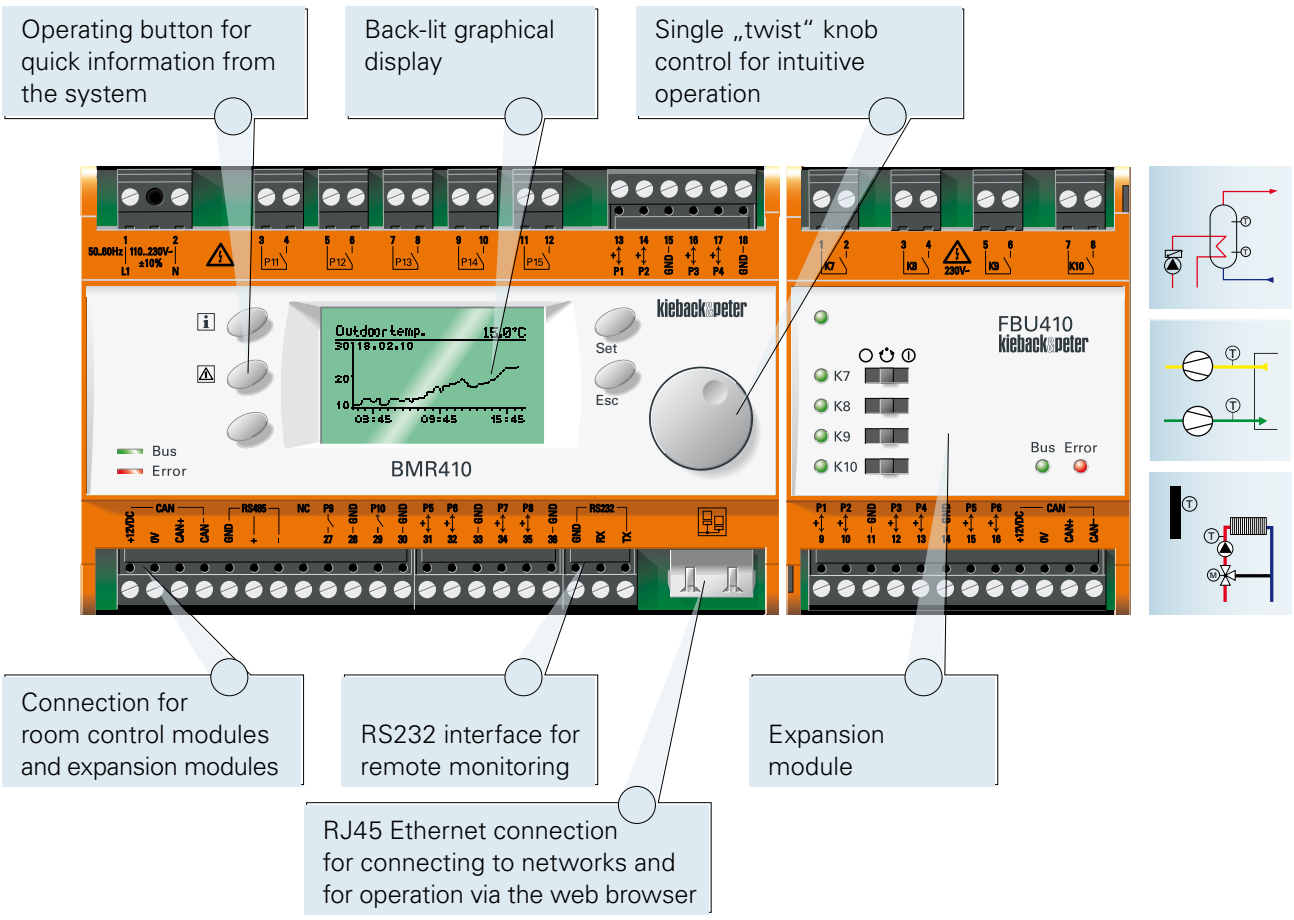
User-friendliness

The BMR is operated using the proven and simple Kieback&Peter concept with a twist knob and back-lit graphical display. This operating concept leads users intuitively through the operating menu.

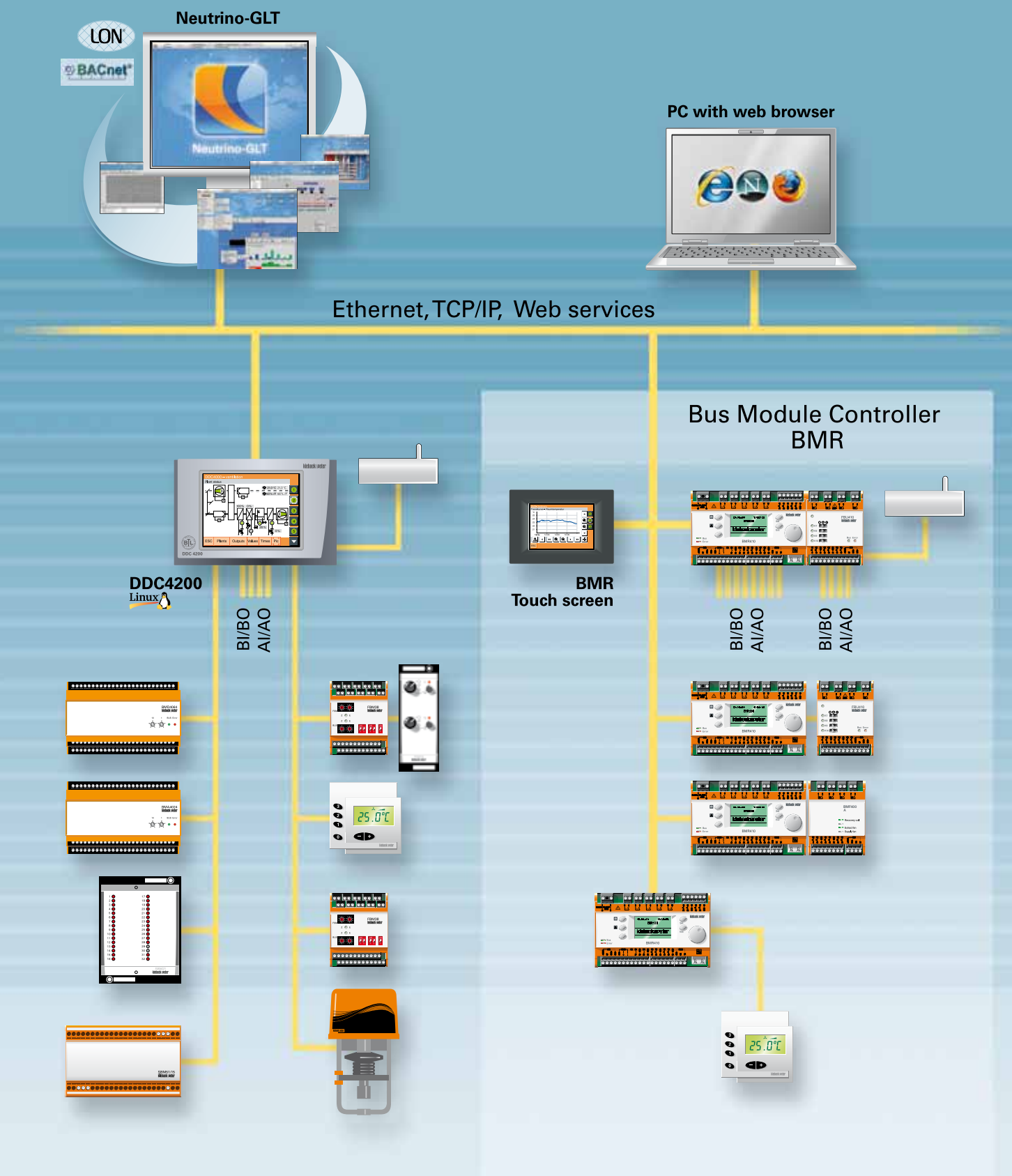
The BMR includes an integrated web server and an Ethernet connection in order to visualize information from the operational plant on a PC. Remote controlling the unit using an offset touch screen is also possible.

Transparency

Using a trend curve, function data can also be visualized as a trend curve. The trend curve function supports monitoring and optimization.



Seamless integration in the entire system



Bus Module Controller BMR
Technical Data

Stand-alone automation station for control, optimization, operating and monitoring functions.

Processor

- 32 Bit processor

Power supply

- Nominal voltage 110..230 V AC +/-10 %; 50 Hz

Physical interfaces

- 5 binary outputs (3 potential free relay contacts)
- 2 binary inputs (also as 80 Hz pulse Inputs)
- 8 universal I/Os to be parameterized as:
  - binary input
  - binary output
  - analog input: 0..10 V, KP10, Pt100, Pt1000, Ni100, Ni1000, KP250
  - analog output: 0..10 V

Communication

- TCP/IP via Ethernet cable (CAT5, 10/100 Mbit)
- Integrated remote control via PC with web browser
- RS232 interface for remote monitoring

Operation and configuration

- Operation of automation system via installation structures
- Configuration by use of an up-to-date and efficient object structure
- This reduces the development effort for standard applications

Bus Module Controller BMR
More user convenience

In addition to operation and visualization directly at the device itself, there are multiple possibilities for remotely controlling the BMR:

Operation via Building Management System (BMS)

The BMR can be connected to the BMS via Ethernet or modem and can be controlled from there. For connection via Ethernet the BACnet Broadcasting Management Device (BBMD) is available for communication between BMR and BMS via an IP-Router.

Operation via web browser

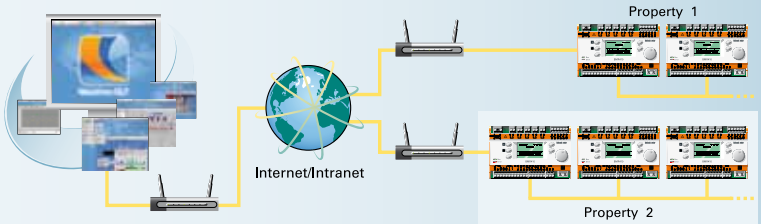
The BMR can be remote controlled via PC. Via integrated Ethernet interface the BMR provides a web browser that enables data back-up and remote control without additional software visualization. When connected via Ethernet, all BMRs are accessible at different IP addresses.

New operation via touch screen

There are two possibilities to operate the device via touch screen. Up to 99 BMRs can be connected to the 5.6 inch version. Up to 3 BMRs can be connected to the 3.5 inch version. The colored touch screen's operational concept is based on the proven and successful operational concept of the DDC4000 automation system.

The user guidance is simple and intuitive. The touch screen brings together high-level user comfort and high-level operational security.

Touch screen and BMR communicate via Ethernet.



Operation via BMS

Remote control via touch screen with operational concept of the DDC4000

Touch screen and BMR communicate via Ethernet. This makes remote control via intranet possible. A VPN connection also enables operation via Internet. The touch screen monitors communication simultaneously.

The user can access the BMR via touch screen to execute operations from anywhere. The operation of the BMR is entirely independent from its location.

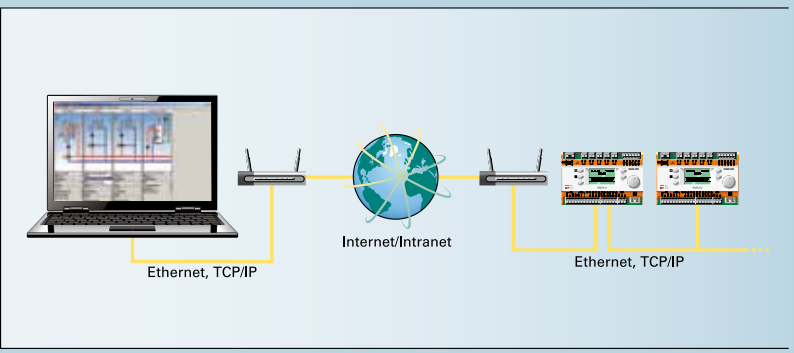
The flat touch screens have an elegant and attractive design. They can be integrated into control cabinet doors, for instance.

Technical Data touch screen

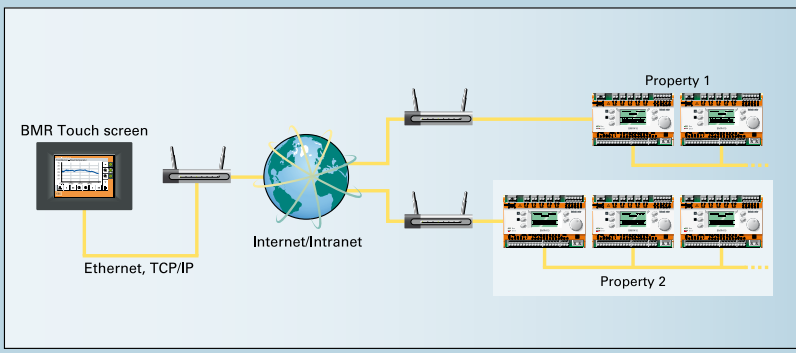
- 5.6 inch TFT touch screen: Dimensions W x H x D: 195 x 148 x 44.4 mm; 24 V DC ±20%; 20 W
- 3.5 inch TFT touch screen: Dimensions W x H x D: 120.8 x 85.5 x 26.5 mm; 12 V DC ±20%; 24 V DC ±20%; 8 W

Overview

- Remote control via web browser, BMS and offset touch screen
- Simple, intuitive operational concept
- Touch screen operation corresponding to the to DDC4000
- Communication via modem and Ethernet



Operation via web browser



Operation via touch screen

BMR Tool
Software for easy configuration of heating and ventilation controls

Overview

- Easy operation
- Self-explanatory
- High flexibility through options
- Quick and easy macro summary
- Documentation, parts list and order list are generated
- Quick and easy transmission of the configuration to the BMR

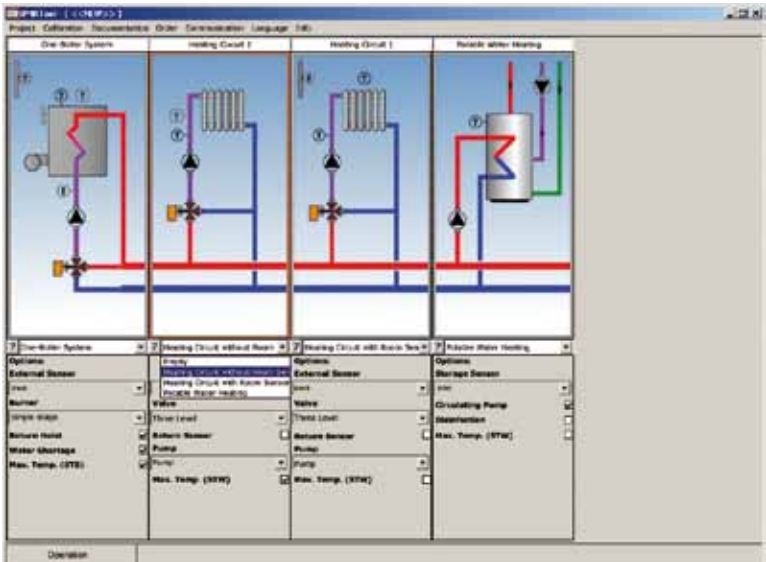
The **BMR Tool is a configuration program** that runs under MS Windows. with a user interface deliberately chosen for ease of use. It helps the user in configuring heating or ventilation systems.

Planning and configuration at the click of a mouse

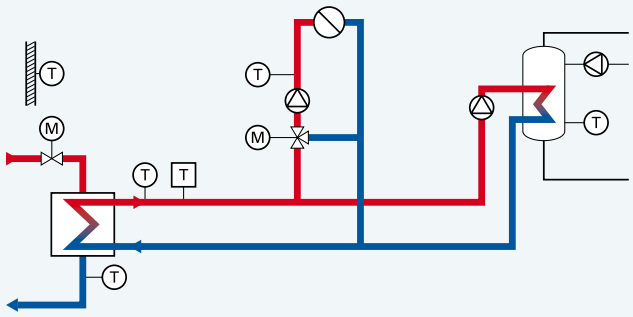
With selectable plant symbols the plant creator plans and configures "its" plant. The BMR Tool generates a device parameterization, functional description and a parts list of the required field devices, based on the afore generated plant visualization.

Plant visualization ready immediately

The complete BMR configuration is sent to the BMR. The plant visualization and the most important data of the plant are made immediately available in a BMR410 with integrated web server.

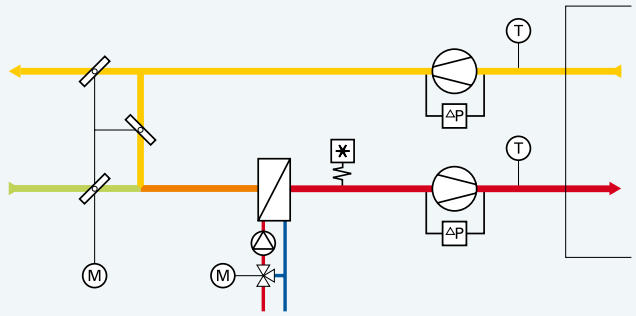


Bus Module Controller BMR
Application advantages at a glance



Heating systems

Control, operate, monitor and optimize heating systems. The basic program, “weather dependent flow control”, is supplemented with pre-control and warm water treatment. A selection of software menus allows for customization to meet the most varied requirements. Configuration via system macros.



Ventilation systems

Control, operate, monitor and optimize ventilation systems. The basic program is completed with software objects such as cascade control, start up control, set point sliding, energy selection and limit values. Adaptable to suit different plants and requirements, configuration via system macros.

Quick and simple installation in electrical distribution boards

Through standard dimensions and the possibility for mounting on standard rails, the BMR is ideally suited for installation in standard service cabinets and electrical distribution boards. Pluggable clips simplify cabling.

Easy expansion

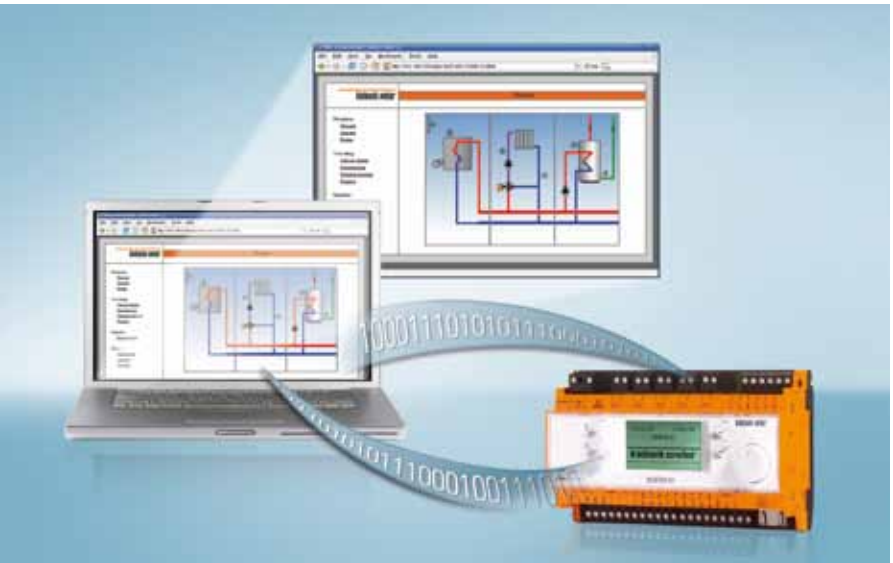
Universal Field bus modules (FBU) expand inputs and outputs. They offer a manual operation level with feedback.

Easy visualization with web browser

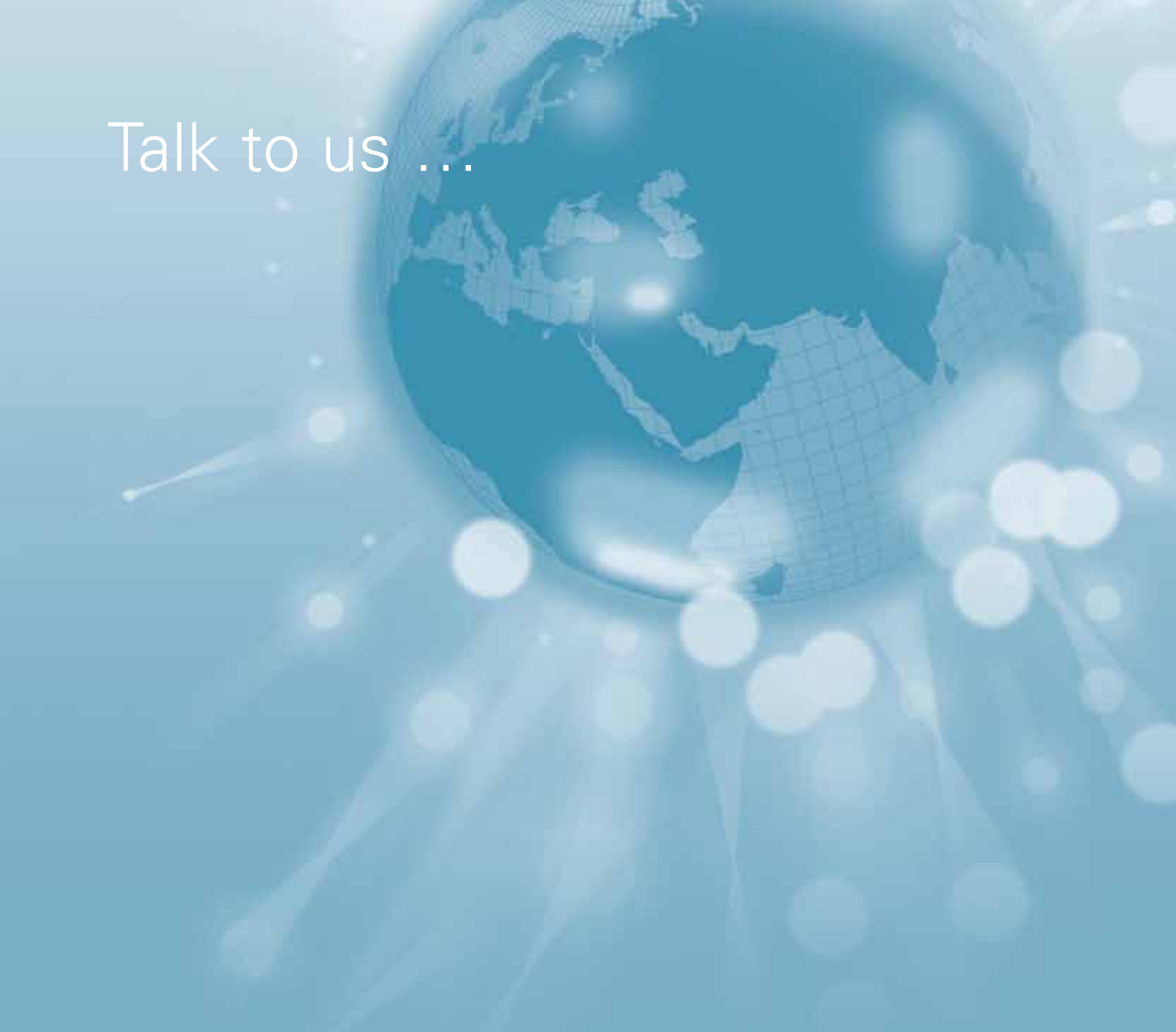
Information on industrial installations is visualized via an RJ45 Ethernet connection and an integrated web server.

Trend curve function

All data can be displayed as a trend curve using the trend curve function. This creates transparency and makes monitoring, analysis and optimization easier.



Talk to us ...



Headquarters

Kieback&Peter GmbH & Co. KG
Tempelhofer Weg 50
12347 Berlin, Germany
Telephone +49 30 60095-0
Telefax +49 30 60095-164
info@kieback-peter.de
www.kieback-peter.com

Headquarters – Export

Kieback&Peter GmbH & Co. KG
Tempelhofer Weg 50
12347 Berlin, Germany
Telephone +49 30 60095-100
Telefax +49 30 60095-699
export@kieback-peter.de
www.kieback-peter.com

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