



Kieback&Peter

DDC4000 AUTOMATION SYSTEM – OPTIMIZING OPERATIONAL SYSTEMS

DDC4000 AUTOMATION SYSTEM

POWERFUL AND INTUITIVE

At a glance

- A powerful automation solution for systems of any size
- Natively equipped with BACnet® (DDC4002e, DDC4200e, DDC4400e, DDC4040e with LON® option available), for cross discipline integration
- Simple, transparent, intuitive operating concept for optimal user comfort and security
- Ethernet interfaces for data transfer over TCP/IP or web browser for integration of web services
- Configurable objects for a variety of closed loop control and open loop control tasks
- Plug-and-play installation in existing networks
- Certified efficiency:
 - BTL certified BACnet Building Controller (B-BC)
 - AMEV attestation AS-B (automation station with extended equipment)

The DDC4000 automation system is a control system measuring, regulating, controlling, optimizing and monitoring operational plants. It consists of different elements including automation stations, modules on the control cabinet as well as fieldbus and fieldbus/operating modules.

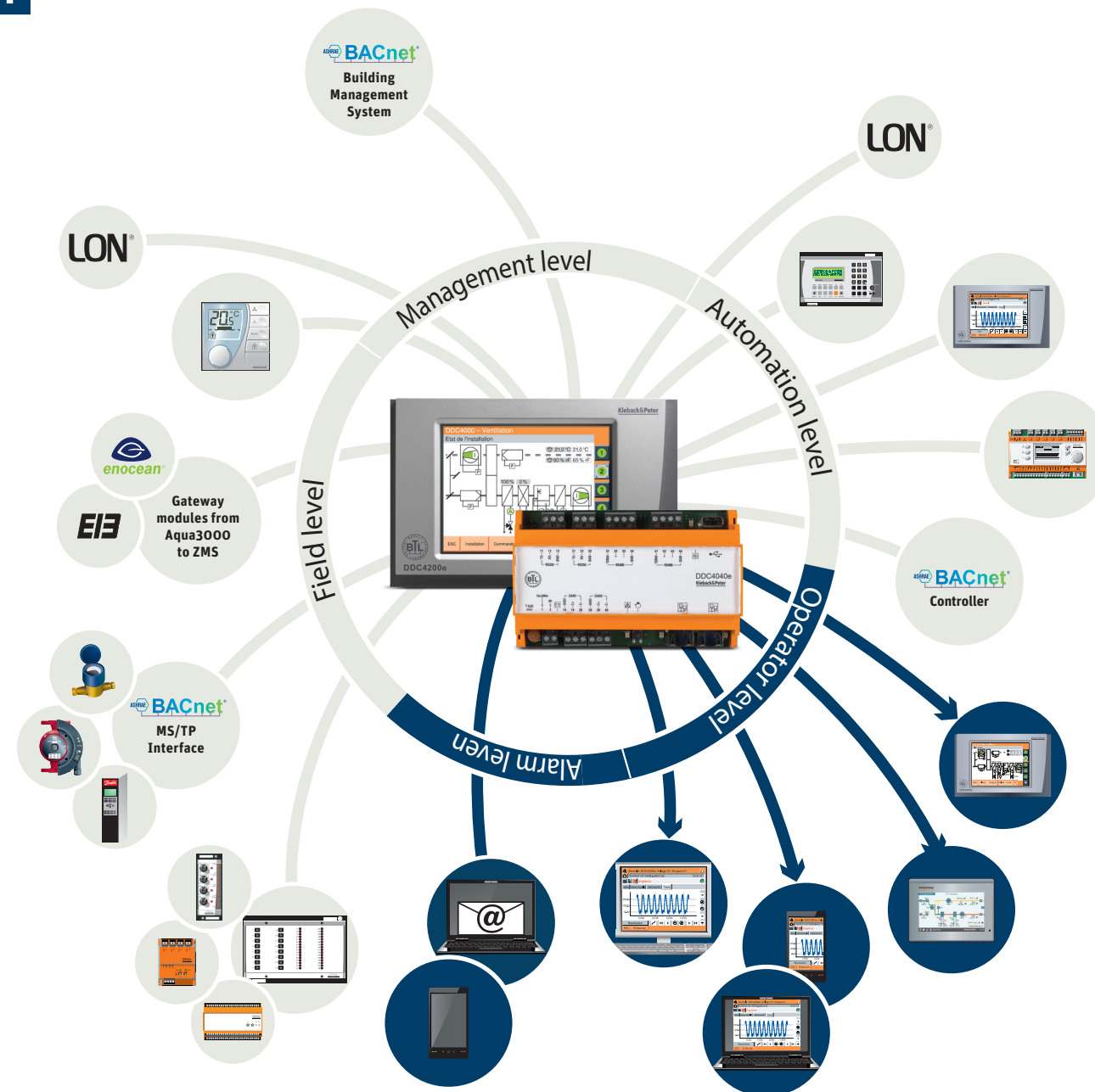
Safe and reliable control systems start with people

The simple and transparent operating concept of the automation stations provide ease of use and IT security. The user interface is individually designed during commissioning and customized to meet user requirements. It is also possible to install system schemata to operate the system. The user interface is intuitive, system conditions can be detected at a glance and control and optimization tasks run quickly and reliable. The user can intervene in the system at any level, in the field also via the bus-connected priority control level (LVB according to DIN).

Networking of technical systems is advancing

All DDC4000e automation stations are natively equipped with BACnet®. DDC4002e, DDC4200e, DDC4400e, DDC4040e are available with a LON® option. This allows for cross-discipline solutions and provides the basis for comprehensive integration. Thanks to the open data communication, extensions and modifications are simple. With the automation stations and bus-compatible input/output modules, the DDC4000 system can implement extensive automation solutions.

Ethernet interfaces for data transfer with the TCP/IP Internet protocol allow plug-and-play solutions in both new and existing networks.



Cross-communication – anytime, anywhere

The automation stations are equipped with a web server to offer high functionality and flexibility. Via the web, services can be easily and securely integrated into the system.

All automation stations can be remotely operated. PCs and mobile devices, such as smartphones and tablets, become the console terminal via a web browser. Additional color TFT touchscreens can also be integrated. Two-way remote control of all automation stations is ensured via web services. Communicating pumps, frequency converters, counters, etc. can be connected directly as BACnet MS/TP field devices to the existing RS485 interface. Gateway solutions are also available.

Object-oriented systems offer individual solutions

The measuring and control software is already integrated. Configurable items fulfill various defined, combinable control and regulation tasks. The tasks can be configured and activated online. The software also controls modems and support for sending fax, SMS and e-mail.

There are two bus module lines up to a maximum length of 2000 m. The DDC4000 automation system provides investment protection and creates the conditions for economic building automation.

From object to project

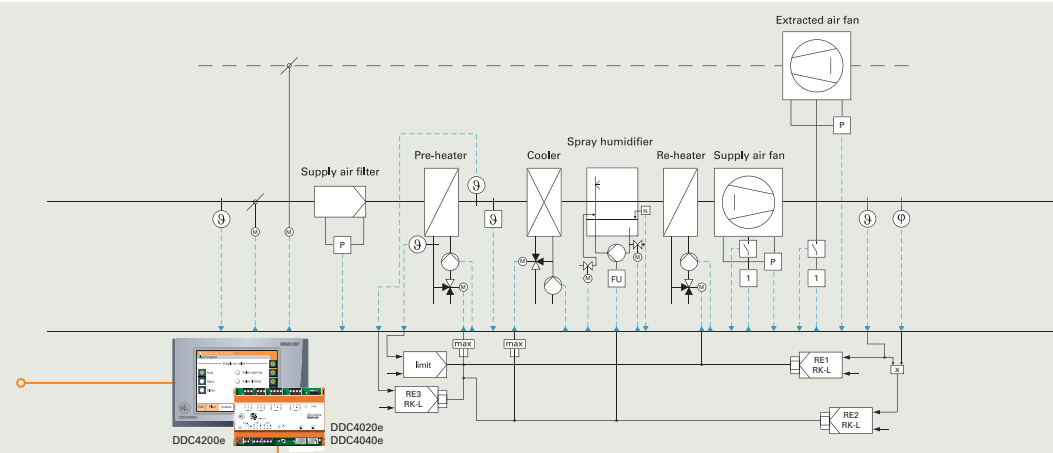
Designing with objects

The DDC4000 automation system has all of the functionality required for configuring HVAC systems. This includes

- Control objects
- Objects for management
- Objects for representing VAC-aggregates (e.g. fans, pumps, etc.).

These features provide for simple, fast and standardized configuration.

The objects contain selectable options to optimize the use of energy and to improve energy efficiency.



Changes during operation – anytime, anywhere

Configuration changes may also be made online directly via the touchscreen, web-browser or tools while applications are running. The system response can be observed live. Changes in the system configuration are automatically synchronized with the tools.



Either placed inside the control cabinet or on its outside door – with the DDC4000 system, there is a solution for each requirement.

DDC4000 AUTOMATION SYSTEM

OVERVIEW

LON
BACnet



Automation stations

DDC4002e, DDC4200e, DDC4400e

- Web server
- Plain-text controlled user interface
- 32 binary inputs/outputs
- 24 analog inputs/outputs

LON
BACnet



DDC4002e

- +5,7" TFT touchscreen
- +4 HVAC systems or 8 heating systems

DDC4200e

- +5,7" TFT touchscreen
- +12 HVAC systems or 24 heating systems

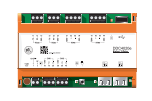
LON
BACnet



DDC4400e

- +12 HVAC systems or 24 heating systems

BACnet



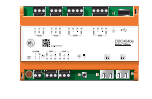
DDC4020e, DDC4040e

- Web server
- Plain-text controlled user interface

DDC4020e

- +4 HVAC systems or 8 heating systems

LON
BACnet



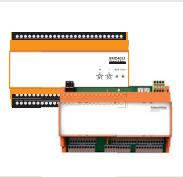
DDC4040e

- +12 HVAC systems or 24 heating systems

Display and operator panels

TPC70

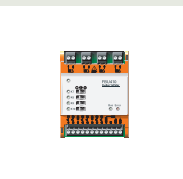
- 7" widescreen touchscreen for remote control
- Plant images in full screen format



Input/output modules

BMA4024, BMD4032, BMD4064, BMD3216

- Bus compatible input/output modules to capture a large number of physical data points in one location



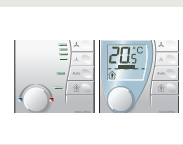
FBU410

- 6 universal inputs/outputs
- Multi I/O, also available with pulse input up to 80Hz
- 4 relay outputs
- 4 manual switches



FBM38 and FBM45 with FSM25 and FSM44

- Local priority control level (DIN)



RBW420x and RBW430x

- Flexible room control modules for customized use



BMA0804, BMA0600, BMA0004 and BMD1204, BMD1200, BMD0004

- Very flexible field connection
- Hot-plug capability
- Emergency manual operation
- LEDs for all inputs/outputs for status, service, troubleshooting
- BMA0804: 8 analog inputs / 4 analog outputs
- BMD1204: 12 digital inputs / 4 digital outputs (relays)
- BMA0600: 6 analog inputs
- BMA0004: 4 analog outputs
- BMD1200: 12 digital inputs
- BMD0004: digital outputs (relays)



HEADQUARTERS

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