



**Kieback&Peter**

**DDC520 – CONTROLLER FOR**

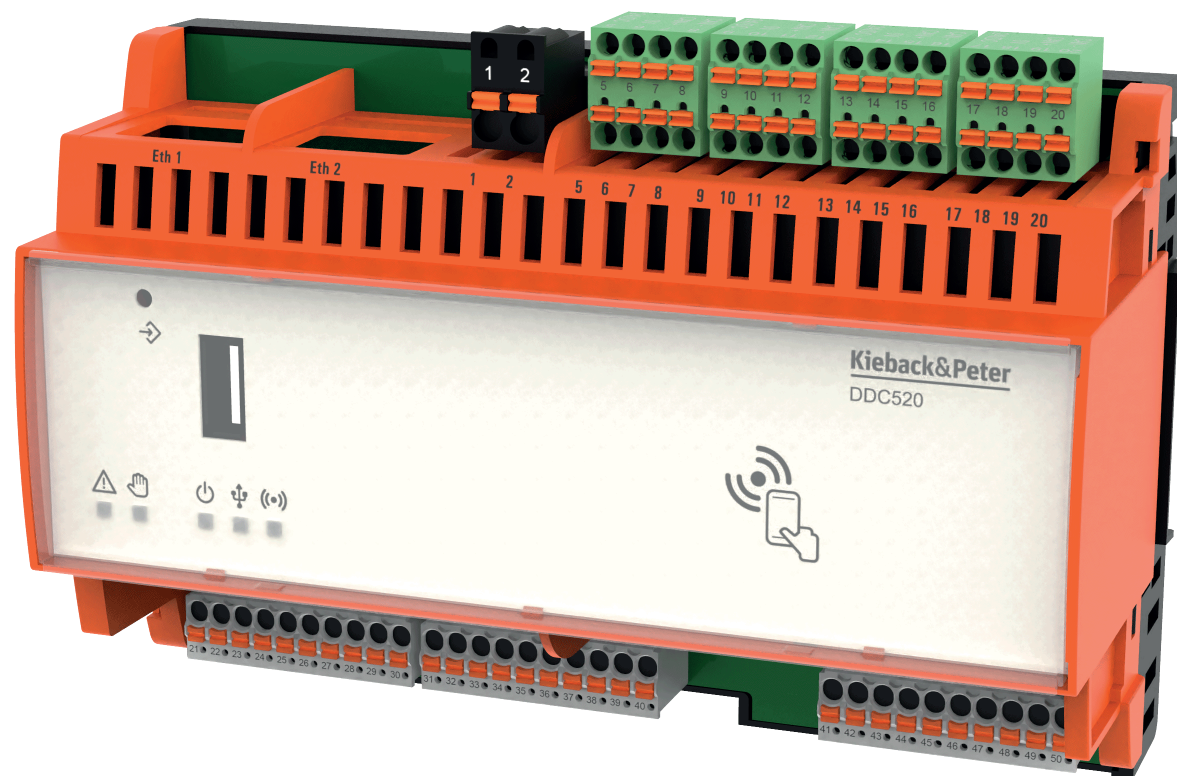
**MODERN BUILDING AUTOMATION**

**Compact. Flexible. Powerful.**

# DDC520

## OVERVIEW & AREAS OF APPLICATION

The new, compact controller for DIN-rail mounting in control cabinets has been specifically developed for regulating, controlling, monitoring, and optimizing heating, ventilation, and air-conditioning systems. As the functional successor to the DDC420 automation station, the DDC520 controller forms the foundation of modern, efficient building automation – setting new standards in flexibility and performance.



### Areas of Application

The DDC520 is ideally suited for use in smaller installations, such as schools, kindergartens, or service connection stations in office, administrative or residential buildings. While primarily designed for primary systems, it can also be used in room automation, offering a high degree of flexibility for a wide range of application scenarios.

# DDC520

## FEATURES & INNOVATION

The DDC520 impresses with its high flexibility and modern features: it supports up to 58 physical data points as well as 50 communicative data points via BACnet MS/TP. A contemporary HTML5-based HMI with HTTPS and certificate management ensures secure and convenient operation. Thanks to native protocol integration (BACnet, profile B-BC) and expandability through I/O modules, the system is fully future-proof.

### Easy, fast device access

- Via smartphone app: K&P DDC SmartAccess
- Through automatic connection setup using NFC and Wi-Fi
- By displaying and adjusting basic configuration data via NFC
- Through operation via the smartphone app

### Wide range of applications

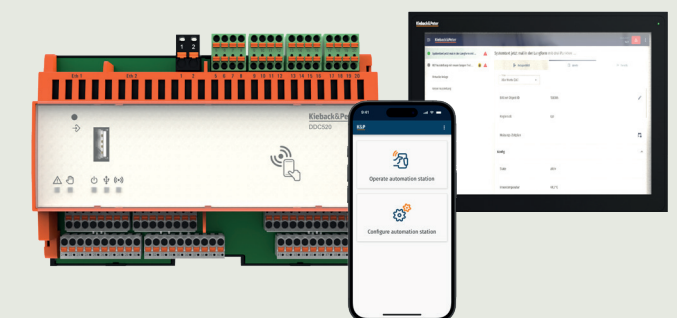
- Full system compatibility with System 4000
- Expandable to a total of 58 physical data points using I/O modules
- One CAN interface for field and control-cabinet bus modules (combinable)

### Certification

- Certified according to BACnet DIN EN ISO 16484-5, Profile: BACnet Building Controller (B-BC)

### IT security and secure communication

- Web browser access via HTTPS with certificates
- BACnet/SC with certificates
- Cybersecurity for radio equipment in accordance with EN 18031
- Deactivatable protocols



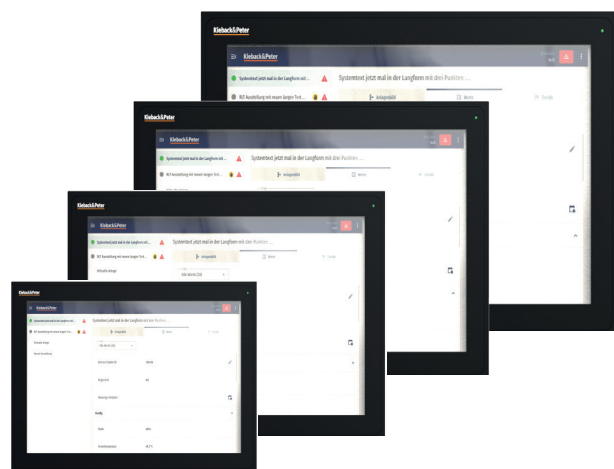
### Modern operation

- New HMI (responsive design, HTML5)
- System graphics with dynamic overlay points
- Up to four trend curves simultaneously

## DDC520

### CUSTOMER BENEFITS

An added value for every stakeholder. The DDC520 offers advantages for all user groups: Operators benefit from intuitive operation via smartphone or web interface, as well as the ability to quickly adjust setpoints and time schedules. For technicians, the system enables basic configuration even without a power supply and provides fast access to network settings. Planners and regulatory authorities appreciate the integrated IT security features, including HTTPS and BACnet/SC, along with full standards compliance—ensuring a future-proof and regulation-compliant solution.



#### Flexible, compact, and ready for the future

The new, modern HMI of the DDC520 impresses with an appealing design and system graphics featuring dynamic overlay points. It allows the simultaneous display of up to four trend curves, supports comparison and optimization, and stores up to 100,000 trend values that can be conveniently downloaded via web access. In addition, four new touch panels (TPC070, TPC101, TPC156, and TPC185) are available in sizes 7", 10.1", 15.6", and 18.5".

#### Highlights:



Offers a wide range of application possibilities



Easy and fast device access



Modern HMI with responsive design



Trend analysis with up to four curves and downloadable trend data

## DDC520

### OPERATION

With the DDC520, everyone practically carries their display in their pocket: operation is conveniently handled through a modern HMI that is directly accessible on a smartphone. In addition, the system enables simple basic configuration, allowing essential settings to be made quickly and effortlessly.

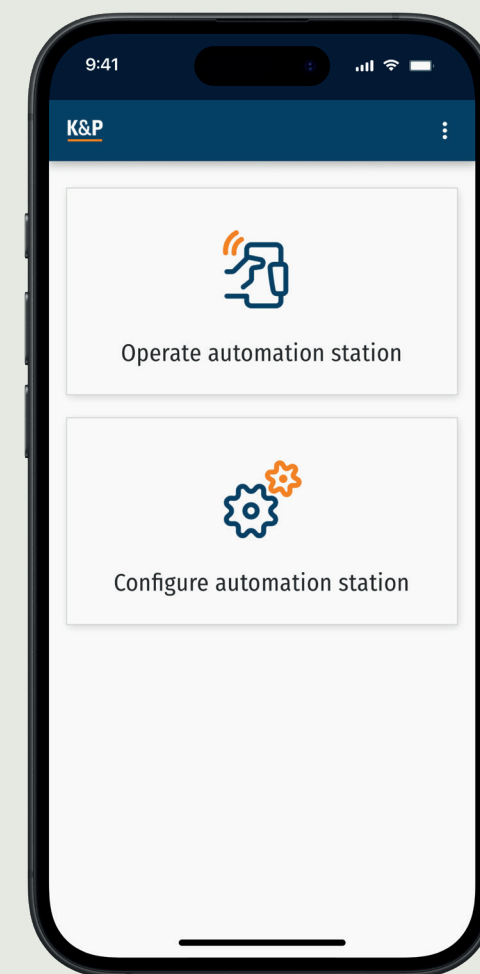
#### DDC SmartAccess App

The DDC520 enables automatic connection and convenient operation via NFC: using NFC, a Wi-Fi connection is established between the smartphone and the controller, allowing the configured HMI to be accessed directly on the smartphone—without relying on an existing building network.

In addition, basic configuration data such as product information and hardware or software versions can be read out. For rapid initial commissioning, selected device parameters—such as network configuration or BACnet settings—can even be written via NFC, entirely without a power supply, for example while working at a desk.



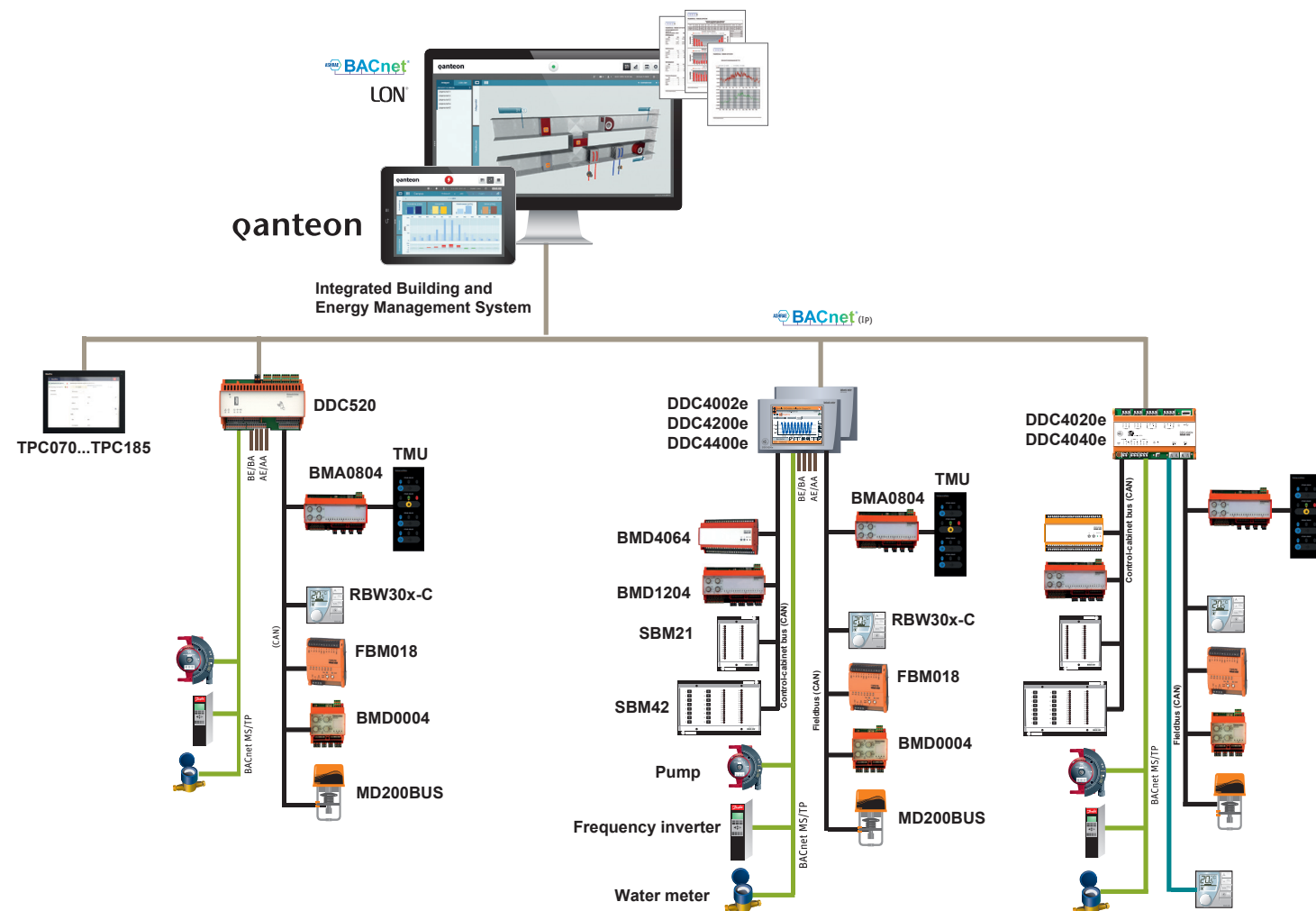
Scan the QR code and download the app



# DDC520

## SYSTEM OVERVIEW

The DDC520 controller integrates seamlessly into the existing system built around the DDC4000e as an automation station (AS), enhancing the overall flexibility of building automation. It completes the lower end of the AS portfolio and offers a compact solution for applications with lower complexity—without compromising the proven quality and functionality.



# DDC520

## TECHNICAL DATA

### Overview

- Power supply: 24 V DC
- No battery (real-time clock: 6-month backup)
- Native BACnet according to DIN EN ISO 16484-5 (BACnet Server, BACnet Client)
- BACnet Secure Connect (BACnet/SC) for secure communication between BACnet devices

### Inputs and Outputs

- 25 physical data points integrated
- 6 binary inputs
- 8 binary inputs/outputs (individually switchable)
- 8 universal inputs/outputs (each can be configured as a binary input)
- 3 analog outputs (can also be used as PWM)
- Expandable via modules to a maximum of 58 physical data points

### Interfaces

- Ethernet: 2× RJ45 (switch, up to 1 Gbit/s)
- CAN bus for module expansion
- RS485 (BACnet MS/TP)
- RS232 (for modem/migration)
- USB Type-A (software updates and data backup)
- Wi-Fi 802.11 b/g/n for smartphone operation

### Module Extensions

- BMD1204 (-PO): 12 digital inputs, 4 relay outputs
- BMD1200: 12 digital inputs
- BMD0004: 4 relay outputs
- BMA0804 (-PO): 8 analog inputs, 4 analog outputs
- BMA0004: 4 analog outputs
- BMA0600: 6 analog inputs
- BMAU24: 24 analog inputs/outputs (individually switchable)
- BDU32: 32 digital inputs/outputs (individually switchable)
- BMD0401-PO: 4 digital inputs, 1 relay output
- RBW4201 to RBW4305: room operating units

### Local Override

- TMC-PO (only with BMD1204-PO or BMA0804-PO)
- TMU-PO (only with BMD0401-PO)

### Module Support for Migration

- FBU410: 6 universal inputs/outputs and 4 relays
- FBM(O)18: 8 digital inputs
- FBM(O)24: 4 relays
- RBW201-C to RBW305-C: room operating units

# Kieback&Peter

---

**Kieback&Peter GmbH & Co. KG**

Tempelhofer Weg 50

12347 Berlin

Germany

phone +49 30 600 95 - 0

[kontakt@kieback-peter.com](mailto:kontakt@kieback-peter.com)

[www.kieback-peter.com](http://www.kieback-peter.com)