

## DDC3002 DDC Central Control Unit

### Basic functions

- DDC Central Control Unit for closed- and open-loop control, optimization, and monitoring functions
- manual operator control level with push-buttons and illuminated LCD display
- direct connection 16 binary inputs, 8 binary outputs and 8 optional als binary input/output
- direct connection 16 analog inputs, 8 analog outputs
- direct connection to BMS Central Control Station or modem connection
- 4 DDC control loops heating / ventilation, expandable to 7 DDC control loops over DDC software menu fixed setpoint
- functional expansion with DDC software menus
- comprehensive PLC-functions with 150 flags, 99 timers as well as time programs.
- up to 99 DDC Central Control Units in the bidirectional data exchange (peer-to-peer)
- permanent system monitoring of the bus communication and all connected DDC components
- customized plaintexts possible for every parameter
- error/malfunction message memory, event log with date and time
- automatic summer / winter time switching
- interactive dialog in the plaintext for the query and entry of the DDC data, such as current values, setpoints and times
- complete operation of the entire DDC System from every connected DDC Central Control Unit (Remote Control) without additional equipment
- trend values memory readable via modem
- DDC Central Control Unit optional with maximum load limit (E-Max-function)



**DDC3002 DDC Central Control Unit**

**Device description**

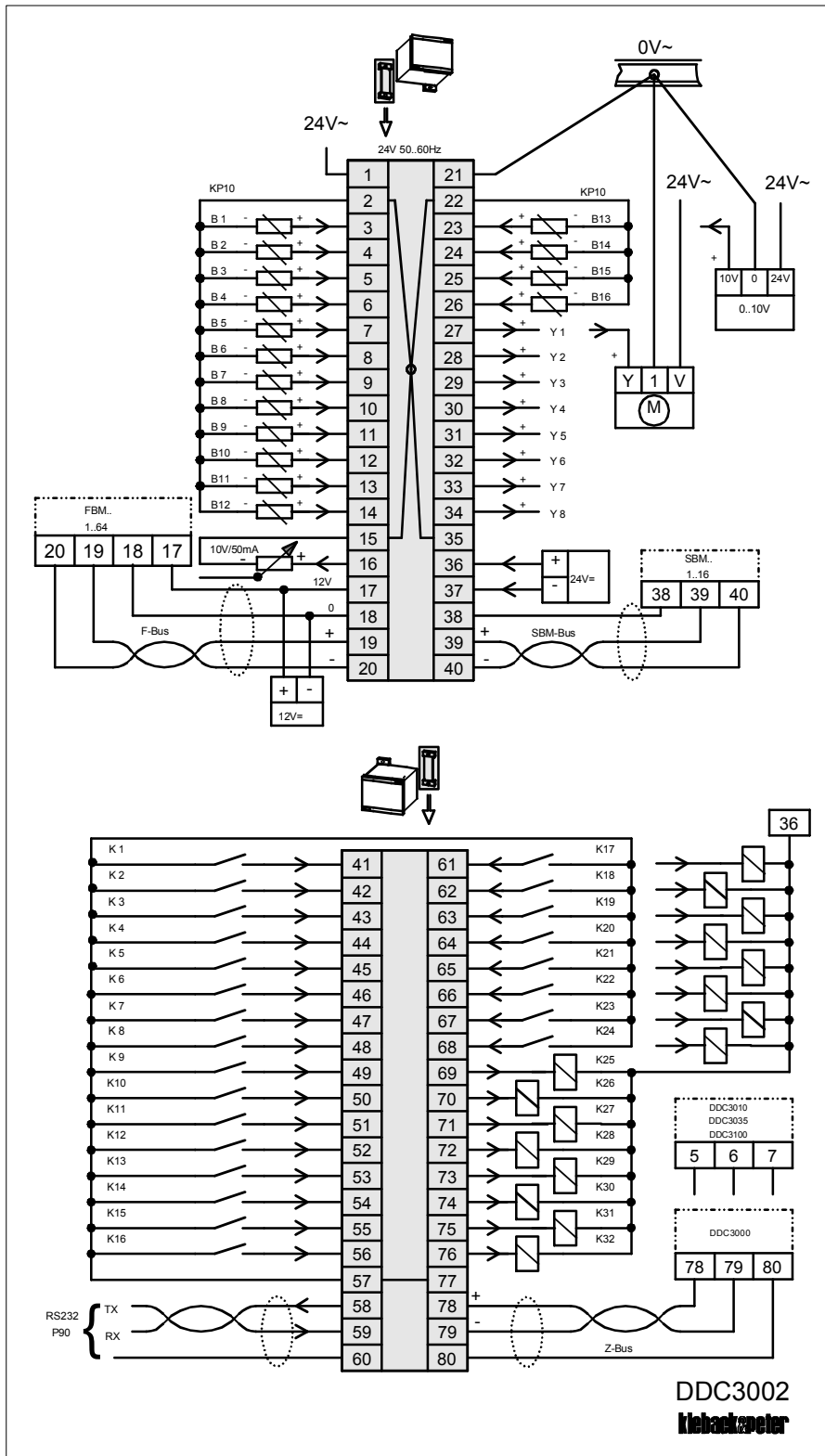
**Technical data**

Bus connection	Central Control Unit Bus; Z-Bus	99 DDC3000 Central Control Units; 1000m, 3000m with drivers; 100kBaud
	field bus; F-Bus	63 Field Bus Module FBM, Field Bus Reg. FBR; 2000m; 20kBaud, CAN
	Control Cabinet Bus; SBM-Bus	16 Control Cabinet Bus Module SBM; 200m; 40kBaud, CAN
interfaces	serial RS232	building management system BMS, modem, operator display, printer (optional connection to diagnostic jack)
	PCMCIA	for memory card; update, data backup / recovery (behind the front panel)
	diagnostic jack	code key; device diagnosis
inputs and outputs	16 binary inputs BE	zero-voltage contact 5mA against 24V DC (max. 250Ω), of these 2 BE (K1 and K2) for pulse count to 80Hz
	8 binary outputs BA	Transistor output max. 80mA, 24V DC
	8 optional BE or BA	
	16 analog inputs	KP10 or 0 .. 10V parameterizable temperature range: -50..+150°C
	8 analog outputs	0 .. 10V, 5mA, short-circuit-proof
operating voltage	for DDC Central Control Unit	24V AC ±10%; 50..60Hz; 20.0VA; 0.8A
	for inputs and outputs	24V DC +/-10% / 100mA
	for Field Bus Module FBM	12V DC +/-25% / 50mA
fuses	mains fuse, T 0.63A	
address switch	00 .. 99 with 2 turning knobs; Central Control Units address; (behind the front panel)	
displays	4x 20-character illuminated LCD, LED bus, LED Error	
switch / push-button	30 push-buttons	
processor	68302; 32 Bit; 16MHz	
memory	1MByte RAM; 2MByte Flash-PROM	
operating system	PSOS 1.20; programming language C; realtime-capable; multitask-capable:	
power failure data backup	10 years, battery-buffered clock component	
deg.enclosure protection	IP40	
ambient temperature	0..45°C	
ambient humidity	in operation: 20..80%rF, non-condensing shut down: 5..90%rF, non-condensing	
enclosure	19" short cassette of plastic, 4-fold cassette with 2 plug-in bases B x H x T ; 202mm x 132mm x 137mm	
front panel section	200.4mm x 112.0mm	
weight	2.200 kg	
identification	CE	

Device description

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Wiring diagram



Date 08.11.2001

Mounting dimensions

