

DDC Central Unit DDC3500-DCS

Basic function

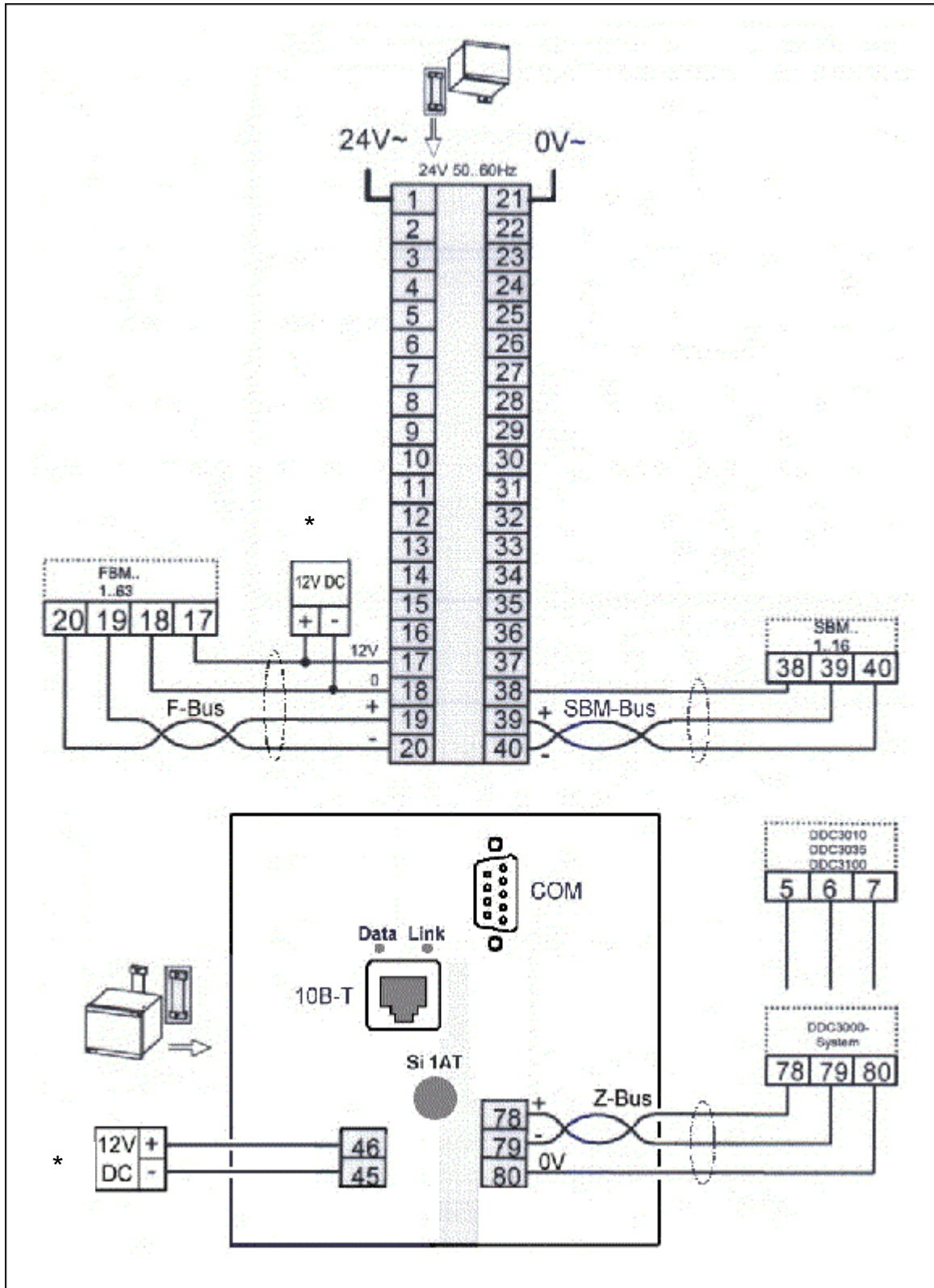
- Direct connection to the BMS Central Control Unit via 10 base-T Ethernet with TCP/IP protocol
- Existing network structures can be used
- DDC Central Unit for control, optimization, and monitoring functions
- Manual operating level with keys and illuminated LCD display.
- 12 DDC control loops for heating / ventilation, expandable to 21 DDC control loops via the DDC software menu Set Value
- Expansion of functions via DDC software menus
- Comprehensive SPS functions with 499 markers, 99 timers, as well as time programmes
- Up to 99 DDC Central Units in bi-directional data exchange (peer-to-peer)
- Permanent systems monitoring of bus communication and all connected DDC components
- Customized plaintext is possible for every parameter
- Fault message storage, event reporting with date and time
- Automatic switch between summer / winter
- A user-guided plaintext dialog allows the enquiry and input of DDC data as actual values, set values and durations.
- The entire DDC system can be fully operated from every connected DDC Central Unit (remote control) without any additional device
- DDC Central Unit optionally with peak load limit (E-Max function)



Technical data

Bus connection	Central bus (Z-Bus)	1,000 m (3,000 m with drivers), 100 kBaud for 99 DDC3000 Central Units
	Field bus (F-Bus)	2,000 m, 20 kBaud, CAN for 63 field bus modules FBM/field bus controller FBR
	Switch cabinet bus (SBM-Bus)	200 m, 40 kBaud, CAN for 16 switch cabinet bus modules SBM
Interfaces	serial RS232 (COM)	Network diagnosis/configuration
	Ethernet	10 base-T (BMS connection) Displays Data: blinks during data communication Link: is illuminated during line connection
Operating voltage	PCMCIA	for memory card, update, data backup/restore (behind the front cover)
	Diagnostics jack	Code key/Device diagnosis
	Service voltage for DDC Central Unit	24 V AC ± 10%, 50..60 Hz, 800 mA, 19.2 VA at nominal voltage
Fuses	for field bus modules FBM	12 V DC ±25% / 50 mA
	for Ethernet	12 V DC ±10% / 800 mA
Address switch	Mains	T 0.63 A
	Communication server	T 1.0 A
Displays	00..99	Address setting 01..99 with 2 rotary switches behind the front cover
	LCD display	4 x 20-digit, illuminated
	LED data	blinks during data transmission F-Bus and SBM-Bus is illuminated in case of Z-bus error or empty battery
Switches/ keys	LED error	
	30 keys	
Controller	68302, 32 Bit, 16 MHz	Memory: 1 MB RAM, 2 MB Flash-PROM
Communication server	SC520, 32 Bit, 133 MHz	Memory: 16 MB DRAM, 16 MB Flash disk
Operating system	PSOS 1.20	real time/multi-task capable, programming language C
Data backup	in case of power failure	approx. 10 years, clock with buffer battery
Housing	19" short cassette	Fourfold plastic cassette with two plug-in bases Width x height x depth: 202 x 132 x 148 mm
Ambient conditions	Temperature	0..45°C
	Humidity	20..80% rF, non-condensing
System of protection	IP40	
Assembly	Switchboard front installation	Switchboard cutout: 200.4 x 112.0 mm
	or Switchboard front installation	with 19" rackside KA
Weight	1.1 kg	
Identification	CE	

Connection illustration DDC3500-DCS



* Please use separate power units!

Installation dimensions

