

Controller @C200PB

CPU



- 10/100Mbit Ethernet Interface
- TCP/IP, RS232 for programming and diagnostic
- Profibus-DP
- Automatic Baudrate Detection (up to 12MBaud)
- Program download by ftp
- @Control *)
 @Control - Web-based parameter setting, system control and e-mail information system *)

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Pinout, Display

LED: *)see notes	
RUN	CPU: ok
DIAG	CPU: diagnostic LED
ERR	CPU: Error LED
S DX	CPU: system data transmission @BUS
ACT	Ethernet: Transmit
LINK	Ethernet: link ok
SP	Ethernet: Off: 10Mbit; on:100Mbit
COLL	Ethernet: Collision
Rotary switch:	
Hi:	Decimal place of the Addr
Lo:	Unit place of the Addr
Connectors:	
Profibus-DP:	Pin 3: PB_B Pin 4: PB_RTS Pin 5: PB_GND Pin 6: +5V= Pin 8: PB_A
Ethernet:	RJ45 10/100Mbit
Serial:	Mini USB RS232 Pin 1: RX Pin 2: TX Pin 3: GND
Power:	Phoenix Minicombicon Pin 1:24 V Pin 2: 0 V

Attributes

The @C200-EN contains a ARM7 core controller

10/100Mbit Ethernet Interface:
 Serial interfaces: RS232, optional RS485*

IP-Address:
 IP-Adress would be given by @ctiveIO-Toolkit
 Rotary switch for fieldbus-address

Fieldbus Interface:
 The @C200-PB connects the Profibus system to the I/O-Moduls.
 The bus-address can be adjusted with two HEX-rotary switches. X1 is the unit place, X100 the decimal place.

CPU specifications:
 Flash memory : 2 MByte (16 Bit)
 SDRAM : 8 MByte (32 Bit)
 CPU clock :44 MHz

Profibus specifications:
 Profibus controller:SPC3

System specifications:
 Hardware supervisor system

- temperature control
- power control
- hardware watchdog
- power fail system
- supports UPS

*) on request

Electrical Data

Power supply external	+24V= ± 20%, see notes
Operating Current	245mA at +24V
Protection	30V overvoltage, surge
Interfaces	RS232, 10/100Mbit Ethernet, Profibus

Controller @C200PB

System Information

System ID	0x1201
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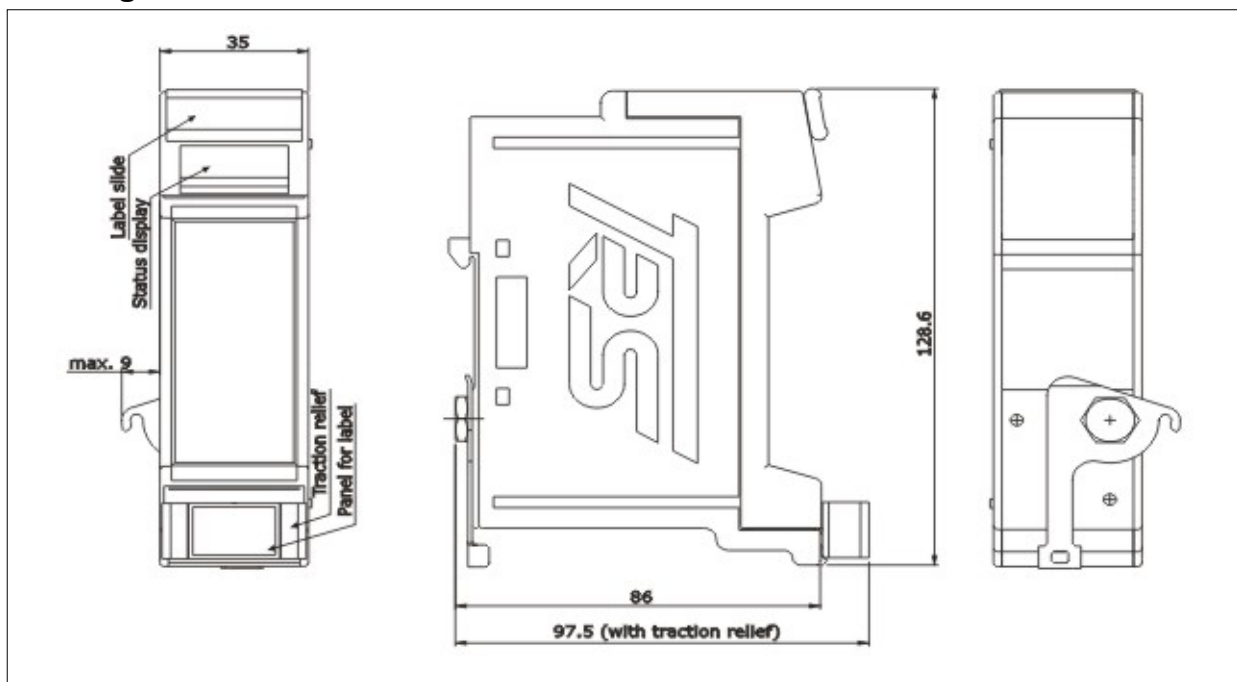
Environmental Conditions

EMC	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating temperature [°C]	0 .. +55
Storage temperature [°C]	-20 .. +70
Humidity (rel)	98 % (non condensing)
* Protection class	IP 20 (DIN 40 050)
* The protection class is valid only with housing and connector installed	

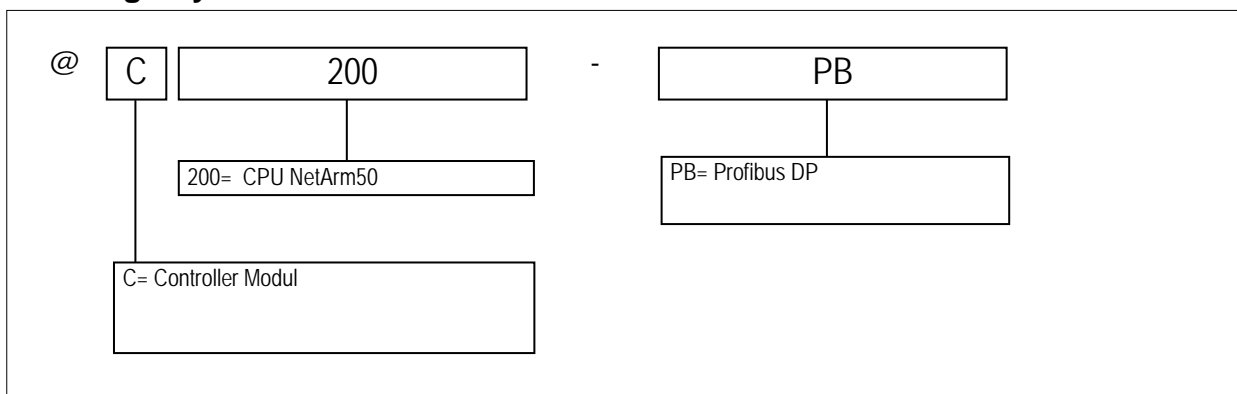
Mechanical Data

Weight	approx. 0.28 kg including connector
Dimension	105 x 80 mm

Drawing (effective if mounted in @M housing)



Ordering Key



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notes:

Description of the LEDs:

LED	Status	Description
RUN	ON	CPU is running
DIAG	ON	Diagnostic information available: Warning / Error
ERR	ON Flashing	Error on fieldbus, no diagnostic information available Error (see diagnostic information)
SDX	ON	Data on @Bus
ACT		Datatransfer on network
LINK	ON	Network connected
SP	ON	Netspeed 100Mbit
COLL	ON	Datacollision on Network
FDX	ON	Receiving Profibusdata
FTX	ON	Sending Profibusdata

Special operating modes (DIAG and ERR LED):

ftp server active: DIAG and ERR in alternating blink mode
System init in progress: DIAG and ERR in concurrent blink mode

Caution:

If using interface moduls of type @5xxx power 0V of the controller has to be directly connected with power 0V of the @5xxx-modul and power 0V of the interface partner of the @5xxx-modul.

Revision change

Version	Description	Date (m/y)
00	Serie 0	11/02