INSEVIS

Product information

S7-Compact-PLC

CC300T

(valid from PLC-version CC300T-xxx-**02**)

Changes to older versions of this document

Rev. 01 → 02: new images, new design line, connectors added, drill jig info added

Technical data

S7-Compact-PLC for 35mm DIN-rail

Standard configuration:

RS232 with
- free ASCII protocol

RS485 with
- free ASCII protocol
- Modbus RTU
- with switchable teminate resistors for RS485

Ethernet with
- RFC1006 (S7-communication),
- Send/ Receive via TCP and UDP,
- Modbus TCP

CAN
- protocol compatible to
  - CANopen®
  - Layer2 communication
- with switchable teminate resistors for RS485

Micro-SD-card slot
- for SD-cards up to 8GByte

Run/Stop switch

State LEDs for Power, Battery, Error, Run

Inserting stripes
- for Logo and identification (thereby customized adaption possible easy)

Additional configuration: (optional)

Profinet IO Controller

Scope of delivery:
- Grounding terminal
- Technical data sheet

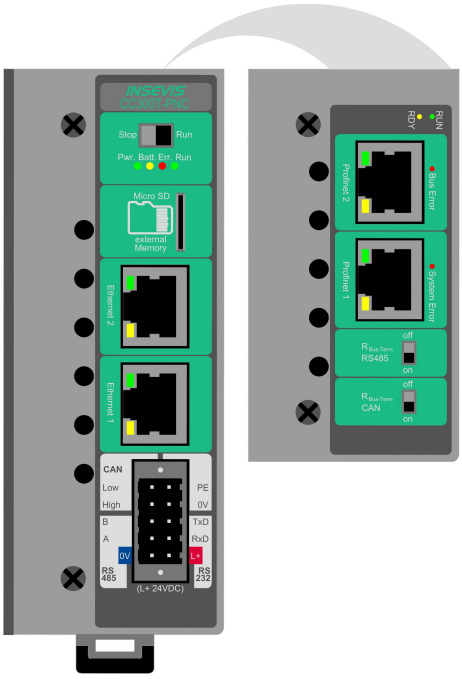
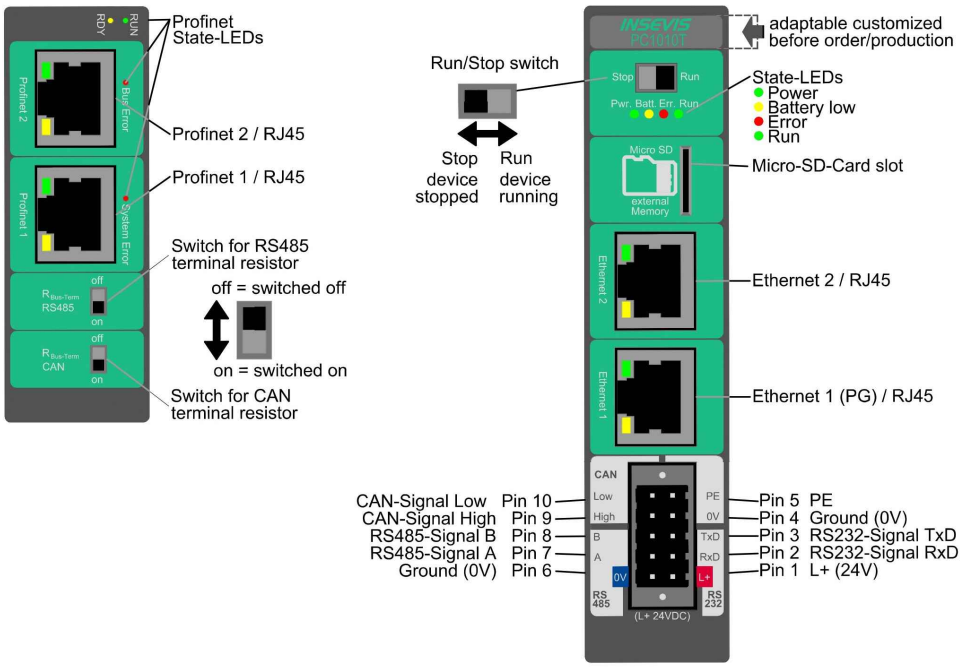


Bild oben: Ansichten der Anschlussseiten CC300T-PNC

Figure below:
CPU-connections of CC300T-basic devices (without periphery slots) and with option Profinet IO Controller



Technical data	
Dimensions W x H x D (mm) Cut out W x H (mm) Protection class Weight	47 x 116 x 84 35mm DIN rail IP41 ca. 500g
Operating temperature range Storage temperature range	-20°C ... +60°C (without condensation) -30°C ... +80°C
Connection technology	removable connector with 2 lift arms or 2 bolt flanges (cage clamp technology) for cross section up to max. 1,5mm^2
Load voltage L+	24V DC (11 V ... 30V DC)
Current consumption Power dissipation	150mA ... 300mA 3,6W (typ.) ... 7,2W (with Profinet)
Start-up current	< 3A

Technical data	CPU
CPU-type	**CPU-T** (CC300**T**)
Working memory / battery backed load memory Load memory Diagnostic buffer	1MB / thereof 512 kByte remanent 8MB 100 entries (all remanent)
Flash external memory	 Micro SD, up to max. 8 GByte (not necessary for S7-program, only for archiving)
OB, FC, FB, DB Lokal data Number of in- and outputs Process image Number of Merkerbytes Number of Taktmerker Number of timer, counter Depth of nesting	each 2.048 32kByte (2kByte per block) in each case 4.096 Byte (32.769 Bit) addressable in each case 4.096 Byte (default set is 128 Byte) 4.096 (remanence adjustable, default set is 0..15) 8 (1 Merkerbyte) in each case 512 (each remanence adjustable, default set is 0) up to 16 code blocks
Real-time clock elapsed hour counter	yes (accumulator-backed hardware clock) 1 (32Bit, resolution 1h)
Program language Program system	STEP 7® - AWL, KOP, FUP, S7-SCL, S7-Graph from Siemens SIMATIC® Manager from Siemens or products compatible to it
Operating system Program unit to reference	compatible to S7-300® from Siemens CPU 315-2DP/PN (6ES7 315-2EH14-0AB0 firmware V3.1 Siemens)
Serial interfaces (protocols)	COM1: RS 232 (free ASCII) COM2: RS 485 (free ASCII, Modbus-RTU)
Ethernet (protocols)	2x Ethernet: (switch or separated ports): 10/100 MBit with parts of CP343 functionality (RFC1006, TCP, UDP, Modbus-TCP)
CAN (protocols)	CAN-telegrams (Layer 2), compatible to CANopen® master/ slave 10 kBaud ... 1 MBaud
optional interfaces (protocols)	Profinet IO Controller

Onboard periphery	none
Decentral periphery	- INSEVIS- periphery (with automatic configuration via „ConfigStage“) - diverse external periphery families (Modbus RTU/TCP, CAN) - all CANopen® slaves according to DS401 - all Profibus DP-V0-slaves

Ordering data of devices

Identification	Standard	With Profinet IO Controller
S7-Compact-PLC **CC300T**	CC300T-0-02	CC300T-PNC-02

Ordering data of accessoiries

Identification / Order-No.	Identification / Order-No.
Connector 2x5pin (lift arms) / E-CON10-00	Connector 2x5pin (bolt flanges) / E-CONS10-00
Additional kit of grounding terminals* (VPE10)	OEM-Inserting stripe H for logo/ identification for rear side / E-LABH-00
Micro SD-card 1GB (external memory) / E-MSD1-00	Micro SD-card 4GB (external memory) / E-MSD4-00
Micro SD-card 2GB (external memory) / E-MSD2-00	Micro SD-card 8GB (external memory) / E-MSD8-00

* (1x already part of first deliveries scope)

Qualified personnel
All devices described in this manual may only be used, built up and operated together with this documentation. Installation, initiation and operation of these devices might only be done by instructed personnel with certified skills, who can prove their ability to install and initiate electrical and mechanical devices, systems and current circuits in a generally accepted and admitted standard.

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With publication of this data all other versions are no longer valid.