

S7-Panel-PLC PC1010T





Image of PC1010T without Profinet (PC1010T-0-03)

Image of PC1010T with Profinet (PC1010T-PNC-02)













(valid from PLC-version HMI1010T-xxx-02)

Changes to older versions of this document

Rev. $01 \rightarrow 02$: new images, new design line, connectors added, drill jig info added

Rev. 02 \rightarrow **03**: changed to CPU-T slim version

Rev. 03 \rightarrow **04:** Information for disposal of old equipment



Description

S7-Panel-PLC with

- 10,1" TFT display (1024x600 pixel)
- resistive touch (front protection class IP65)

Standard configuration:

RS232 with

- free ASCII protocol

RS485 with

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

2x Ethernet (as switch or separated) with

- S7-connection (Put/Get)
- Send/ Receive via TCP and UDP,
- Modbus TCP

CAN

- protocol compatible to
 - CANopen®
- Layer2 communication
- with switchable terminate 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

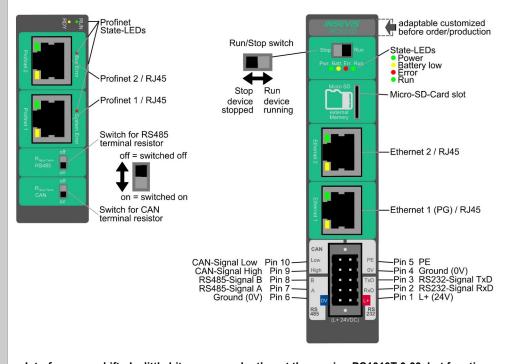
Scope of delivery:

- Mounting kit with grounding terminal i
- Technical data sheet



Figure above: View to rear side and connections sides of PC1010T-PNC

Figure below: CPU-connections of all Panel-PLC-basic devices (without periphery slots) with CPUs type T and with option Profinet IO Controller

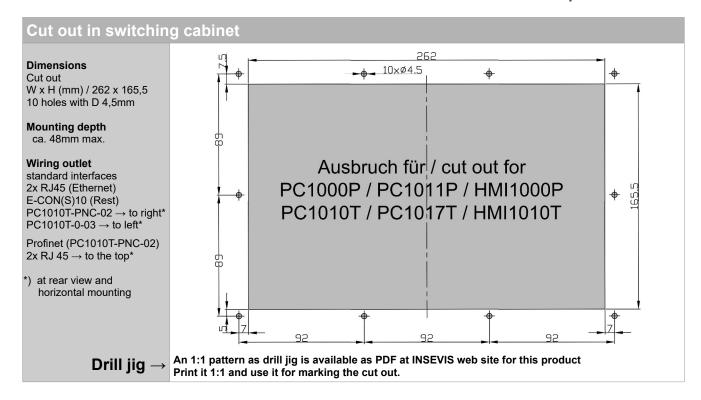


→ Interfaces are shifted a little bit among each other at the version PC1010T-0-03, but functions and connections are kept similar to the other CPU-T versions (no image, self explanatory)



Dimensions W x H x D (mm) Cut out W x H (mm) Weight	286 x 188 x 53 (48mm mounting depth) 262 x 165,5 ca. 950 g		
Operating temperature range	-20°C +60°C (without condensation)		
Storage temperature range Relative humidity	-30°C +80°C up to 96% (without condensation)		
P-protection class librations	front panel IP65 rear side IP41 Frequency range 2 -100Hz, amplitude 1mm peak < 13,2Hz acceleration 0,7g >13,2Hz		
Connection technology	removable connector with 2 bolt flanges (cage clamp technology) for cross section up to max. 1,5mm²		
oad voltage L+	24V DC (11 V 30V DC)		
Current consumption Power dissipation	350mA 500mA 8,5W (typ.) 12W (with Profinet)		
Start-up current	< 3A		
Diagonal of display (inch) Display resolution (pixel)	10,1" (258mm) 1024x600 Pixel (16:9)		
Display unit Operating unit	TFT display with 16Bit colours analog resisitive touch screen		
visualization tool unit to reference there	VisuStage PC1010T, PC1017T		
Fechnical data	CPU		
CPU-type	CPU-T (PC1010 T)		
Working memory = battery	1MB 512 kByte remanent		
acked load memory Diagnostic buffer	8MB 100 entries (all remanent)		
Flash	40 MD:4-		
internal - for visualization external memory	48 MByte Micro SD, up to max. 8 GByte (not necessary for S7-program, only for archiving)		
DB, FC, FB, DB	each 2.048		
okal data Number of in- and outputs	32kByte (2kByte per block) in each case 4.096 Byte (32.769 Bit) addressable		
Process image	in each case 4.096 Byte (default set is 128 Byte)		
Number of Merkerbytes	4.096 (remanence adjustable, default set is 015)		
lumber of Taktmerker lumber of timer, counter	8 (1 Merkerbyte) in each case 512 (each remanence adjustable, default set is 0)		
epth of nesting	up to 16 code blocks		
eal-time clock lapsed 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 and firmware V3.1 Siemens)		
Gerial interfaces protocols)	COM1: RS 232 (free ASCII) COM2: RS 485 (free ASCII, Modbus-RTU)		
Ethernet	2x Ethernet: (switch or separated ports):		
protocols)	10/100 MBit with parts of CP343 functionality (RFC1006, TCP, UDP, Modbus-TCP)		
AN protocols)	CAN-telegrams (Layer 2), compatible to CANopen® master 10 kBaud 1 MBaud		
optional interface (protocol)	Profinet IO (only at PC1010T-PNC-02) 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 Profinet IO devices		





Ordering data of devices			
Identification	Standard	With Profinet IO Controller	
S7-Panel-PLC PC1010T	PC1010T-0-03	PC1010T-PNC-02	

Ordering data of accessoires				
Identification / Order-No.	Identification / Order-No.			
Connector 2x5pin (bolt flanges) / E-CONS10-00	Micro SD-card 2GB (external memory) / E-MSD2-00			
Micro SD-card 4GB (external memory) / E-MSD4-00	Micro SD-card 8GB (external memory) / E-MSD8-00			

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.

Manuals, sample programs

Additional documentation by manuals is available as well sample applications at the download area of www.insevis.com in English language for free download.

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Disposal

Po not throw old appliances in the household waste! In the interest of environmental protection, old appliances must be collected separately from unsorted municipal waste. You can find out more about the proper disposal / return of your old appliance at www.insevis.com/disposal.

Attention: The deletion of personal data on the old devices to be disposed of is the responsibility of the end user.

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