

Product information

S7-Panel-PLC

PC1017T



(Figure contains optional periphery modules)



(valid from PLC-version HMI1017T-xxx-02)

Changes to older versions of this document

Rev. 01 → 02: new images, new design line, connectors added, drill jig info added (Rev. a: LCD size corrected)

Description

S7-Panel-PLC with

- 10,1 TFT display (1066x600 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

Ethernet with

- RFC1006 (S7-communication),
- 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
- Technical data sheet

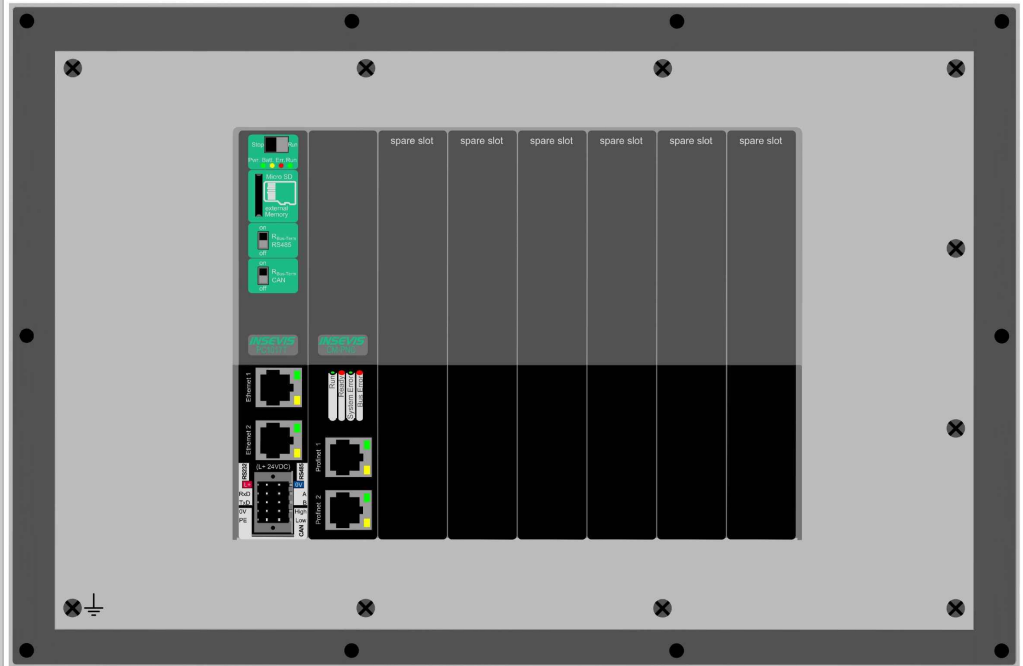
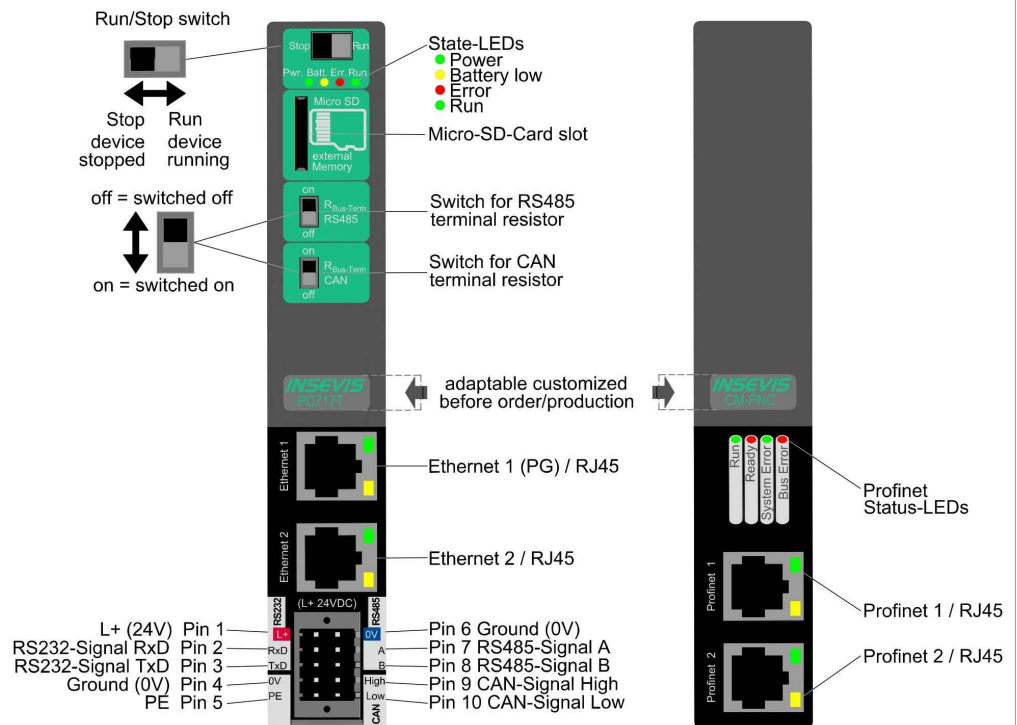


Figure above: View to rear side and connections sides of PC1017T-PNC

Figure below: CPU-connections of all Panel-PLC-devices with periphery slots with CPUs type T and with option Profinet IO Controller on slot 1



Technical data	
Dimensions W x H x D (mm)	286 x 188 x 47
Cut out W x H (mm)	262 x 165,5
Weight	ca. 950 g
Operating temperature range	-20°C ... +60°C (without condensation)
Storage temperature range	-30°C ... +80°C
IP-protection class front panel	IP65
rear side	IP41
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	200mA ... 1300mA
Power dissipation	4,8W (typ.) ... 31,2W (max. with Profinet and full of periphery)
Start-up current	< 3A
Diagonal of display (inch)	10,1" (258mm)
Display resolution (pixel)	1024x600 Pixel (16:9)
Display unit	TFT display with 16Bit colours
Operating unit	analog resistive touch screen
Visualization tool unit to reference there	VisuStage PC710T, PC1017T
Technical data	
CPU	
CPU-type	CPU-T (PC1017T)
Working memory = battery backed load memory	1MB 512 kByte remanent 8MB
Diagnostic buffer	100 entries (all remanent)
Flash internal - for visualization external memory	48 MByte Micro SD, up to max. 8 GByte (not necessary for S7-program, only for archiving)
OB, FC, FB, DB Local data	each 2.048 32kByte (2kByte per block)
Number of in- and outputs	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 0..15)
Number of taktmerker	8 (1 Merkerbyte)
Number of timer, counter	in each case 512 (each remanence adjustable, default set is 0)
Depth of nesting	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	7 slots (optional Profinet uses Slot 1)
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

Cut out in switching cabinet

Dimensions

Cut out
W x H (mm) / 252x165,5
10 holes with D 4,5mm

Wiring outlet

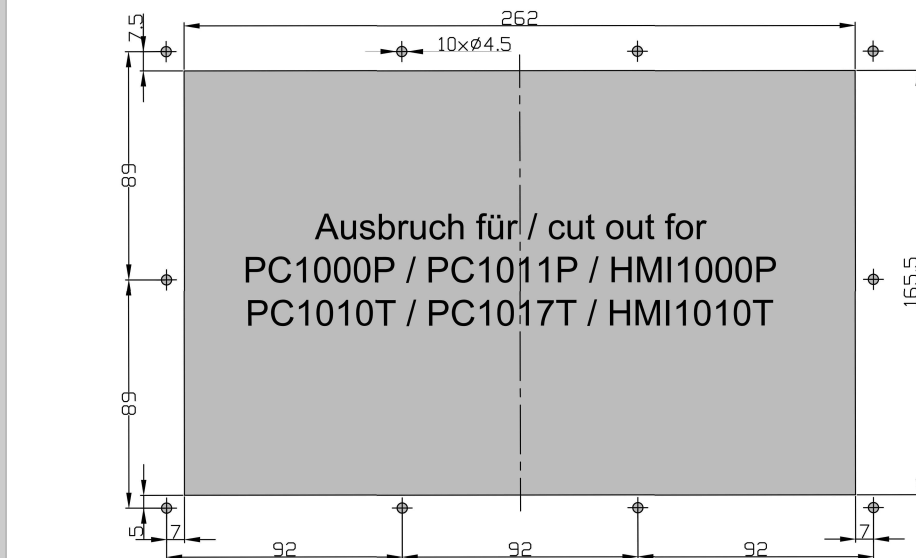
at rear view and
horizontal mounting

PC1017T

Wiring outlet
- 45° down

Mounting depth
ca.95mm max.

Drill jig



An 1:1 pattern as drill jig is available as PDF at INSEVIS web site for this product
Print it 1:1 and use it for marking the cut out.

Ordering data of devices

Identification	Standard	With Profinet IO Controller
S7-Panel-PLC PC1017T	PC1017T-0-02	PC1017T-PNC-02

Ordering data accessoires

Identification / Order-No.	Identification / Order-No.
Periphery module DI16 / PM-DI16-02	Periphery module MIO84 / PM-MIO84-02
Periphery module DIO16 / PM-DIO16-02	Periphery module AI8O2 / PM-AI8O2-02
Periphery module DO-4R / PM-DO4R-02	Periphery module AI4O4 / PM-AI4O4-02
Functional module DIO8-Z (configurations reg. catalog)	Periphery module RTD8O2 / PM-RTD8O2-02
Connector 2x5pin / E-CON(S)10-00	Connector 1x8pin (for DO4R) / E-CON8-00
Connector 2x10pin (for digital PM) / E-CON(S)20D-00	Mounting / grounding set for 10,1"-devices * / E-MNT100-00 (PU10 pcs.)
Connector 2x10pin (for analog PM) / E-CON(S)20A-00	Micro SD-card 1/2/4/8GB (ext. memory) / E-MSD1/2/4/8-00
OEM-Firmware with customized logo included / SW-BS-OEM	OEM-inserting stripe V for logo and identification for rear side

* is already part of first delivery

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

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