Product information

S7-Panel-PLC

PC1567T

(Figure contains optional periphery modules)

(valid from PLC-version HMI1567T-xxx-**02**)

Changes to older versions of this document

Rev. 01 → 02: new images, new design line, connectors added, drill jig info added
Rev. 02 → 03: new temperature ranges

Description

S7-Panel-PLC with

- 15,6 TFT display
  (1366x768 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
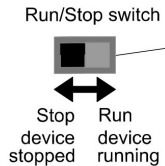 TCP and UDP,
- Modbus TCP

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
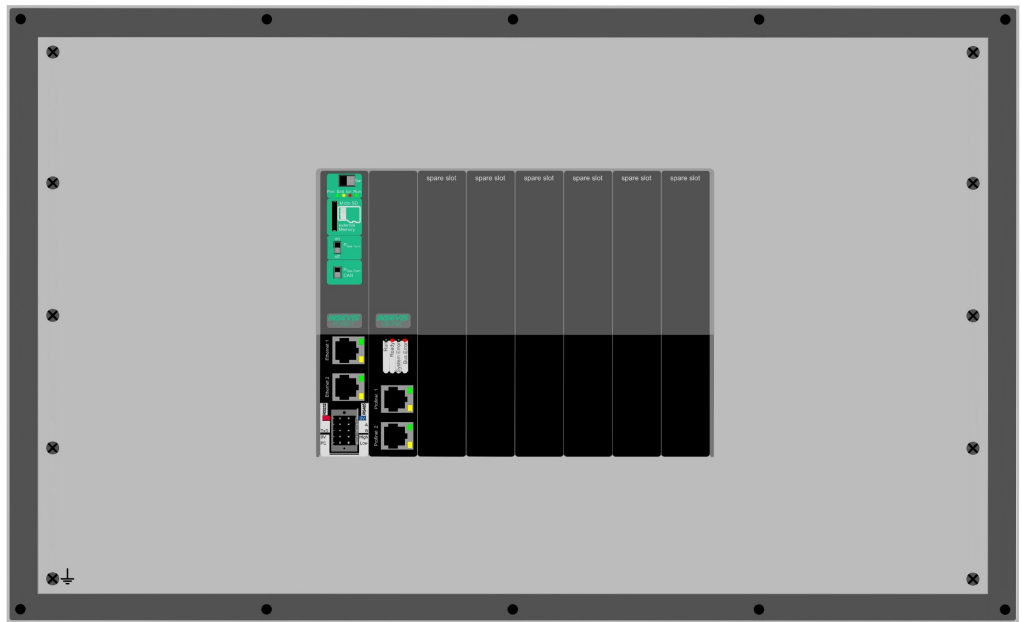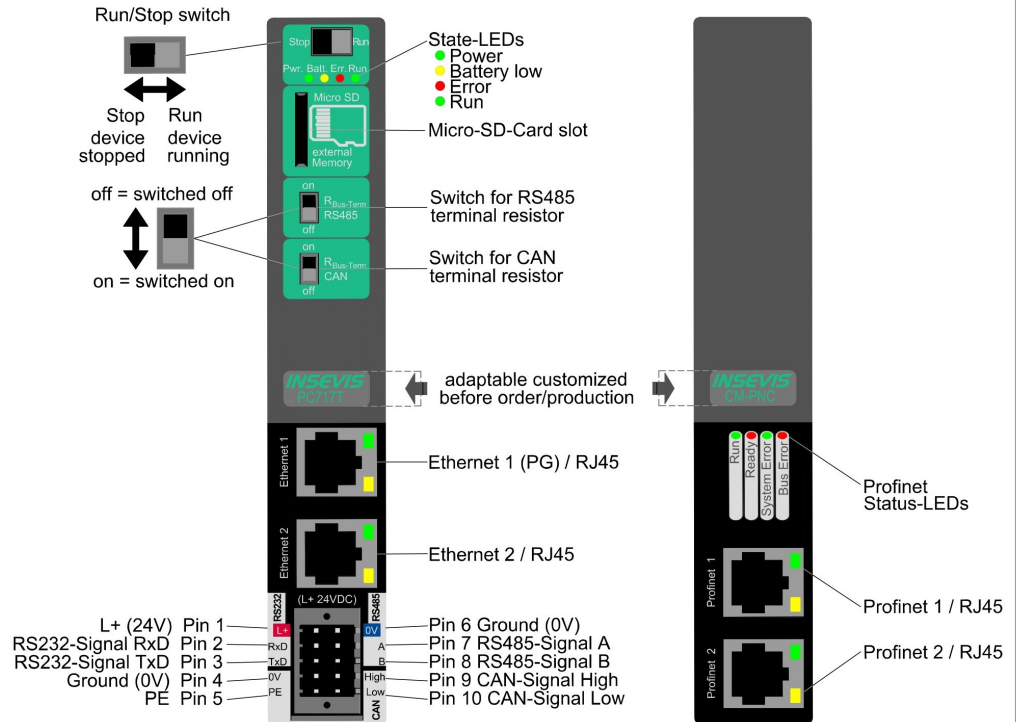 grounding terminal
- Technical data sheet

Figure above: View to rear side and connections sides of PC1567T-PNC (horizontal use)

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) Cut out W x H (mm) Weight	410 x 250 x 104 387 x 228 ca. 1.900 g
Operating temperature range Storage temperature range	0°C ... +50°C (without condensation) -20°C ... +60°C

IP-protection class
  front panel
  rear side
	
	IP65
	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 Power dissipation	500mA ... 1500mA 12W (typ.) ... 36W (max. with Profinet and full of periphery)
Start-up current	< 3A
Diagonal of display (inch) Display resolution (pixel)	15,6" (397mm) 1366x768 Pixel (16:9)
Display unit Operating unit	TFT display with 16Bit colours analog resisitive touch screen
Visualization tool unit to reference there	VisuStage PC1560T, PC1567T

Technical data — CPU

CPU-type	**CPU-T** (PC1567**T**)
Working memory = battery backed load memory Diagnostic buffer	1MB 512 kByte remanent 8MB 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 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	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) / 387 x 228
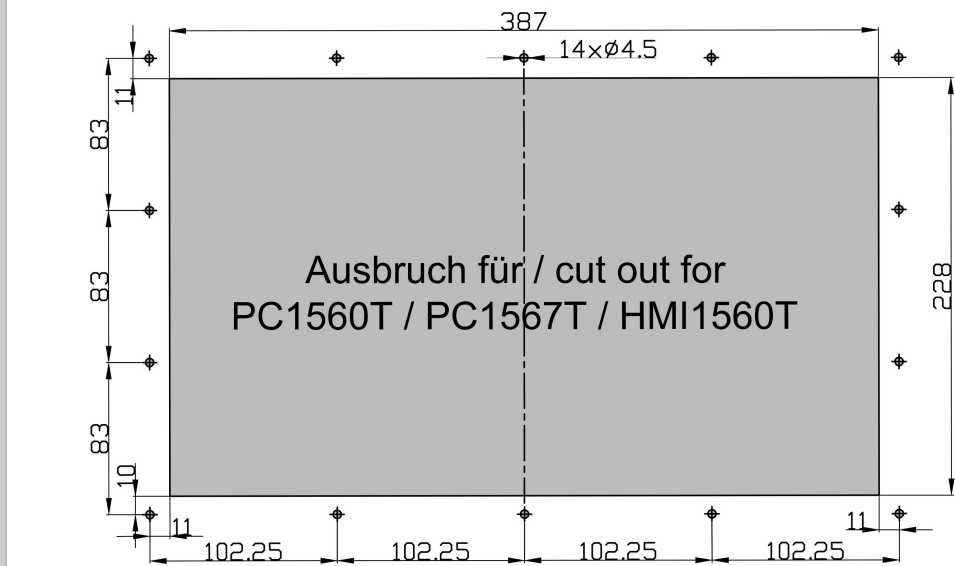14 holes with D 4,5mm

Wiring outlet
 at rear view and
 horizontal mounting

PC1567T
Wiring outlet
- 45° down

Mounting depth
 ca.104mm max.

Drill jig

387
14×Ø4.5

Ausbruch für / cut out for
PC1560T / PC1567T / HMI1560T

228

11
83
83
83
10
11
11
102.25   102.25   102.25   102.25

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 **PC1567T**	PC1567T-0-02	PC1567T-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 (for PLC) / 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 15,6" devices*/E-MNT156-00 (VPE10)
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
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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