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Product Information

S7-Panel-PLC

PC577V
PC577P

(Figure contains optional periphery modules)

(valid from PLC version PC577-xxx-**03**)

Changes to older versions of this document

Rev. 02 → 03: description of Profibus-signals made compatible to Siemens-manuals
Rev. 03 → 04: PC587P removed
Rev. 04 → 05: new front foil, new images, new design line, connectors added
Rev. 05 → 06: Information for disposal of old equipment
Rev. 06 → 07: Link to Security Guideline added

Description

Panel-PLC with **TFT-color touch display**

- **PC577V/P 5,7“** TFT (320x240 Pixel/ QVGA)

Standard configuration:

- **RS232 with**
  - free ASCII-protocol
- **RS485 with**
  - free ASCII-protocol
  - Modbus RTU
  - with switchable terminate resistors for RS485
- **Ethernet with**
  - RFC1006 (S7-Connect-ion with Put/Get),
  - Send/ Receive via TCP and UDP,
  - Modbus TCP
- **CAN with**
  - protocol compatible to CANopen®
  - layer2-communication
  - with switchable teminate resistors for CAN
- **Micro-SD-slot**
  - for SD-cards up to 8 Gbyte (just to archive DBs as csv-file, not for storing program – this is kept in CPU-flash
- **Run/Stop-switch**
- **Status LEDs** for Power, Battery, Error, Run
- **Inserting stripes** for Logo and identification (thereby customized adaption possible easy)

optional configuration:

(optional)
- **Profibus DP-Master**
- **Profibus DP-Slave**
- with switchable terminate resistors for Profibus

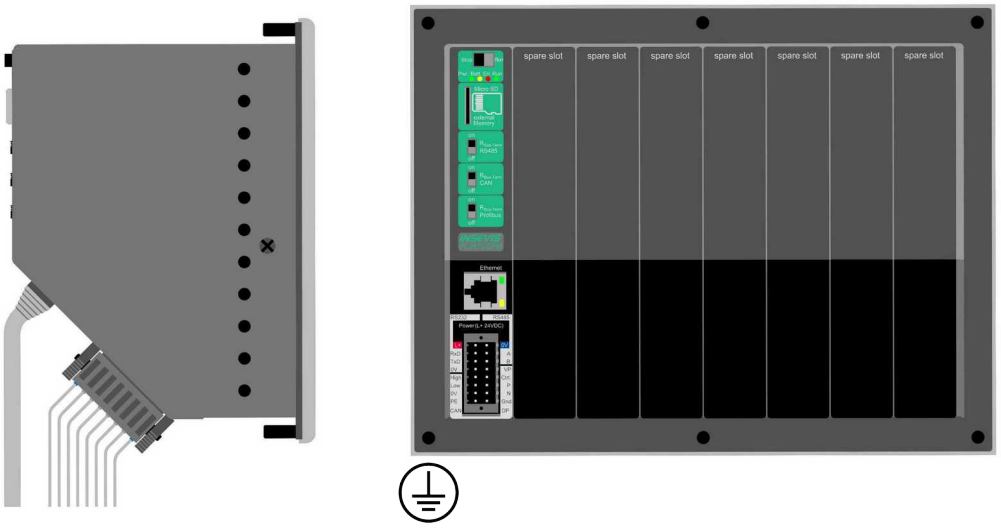


Figure above: Panel-PLCs PC577V/P, rear view and view from the side

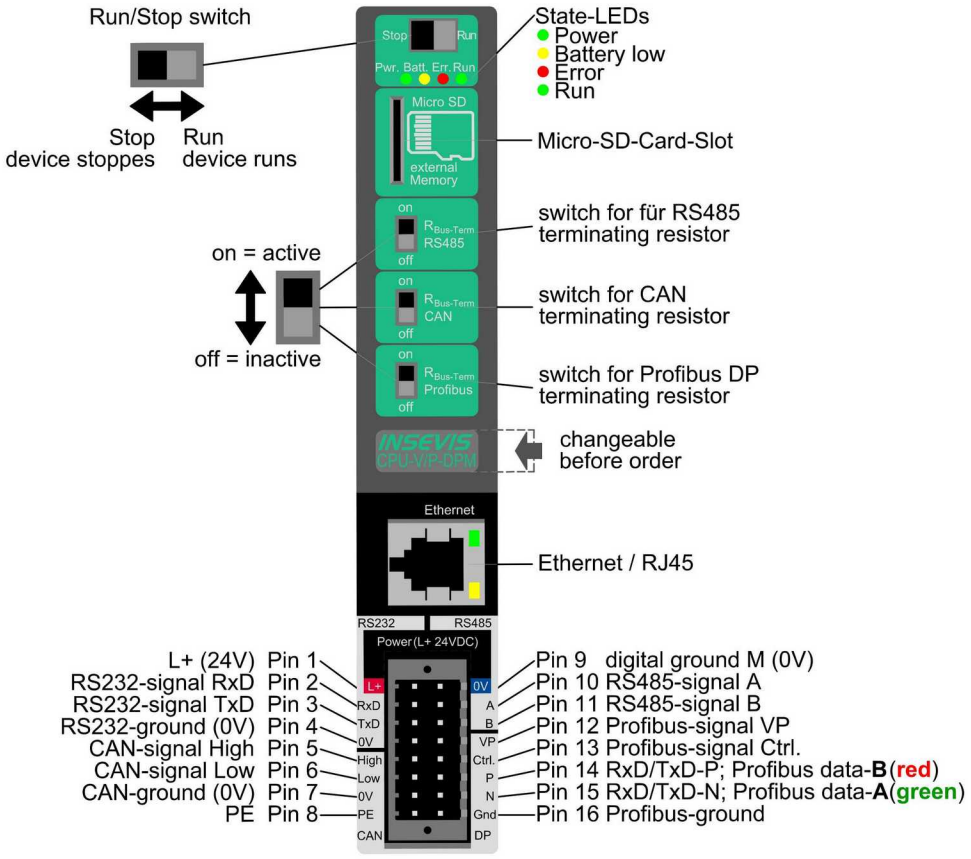


Figure above: Identification of all CPUs of all Panel-PLCs basic devices with CPU-types V and P and with Profibus DP Master

Technical data	Device
Dimensions W x H x D (mm) Cut out W x H (mm) Weight	182 x 140 x 95 163 x 118 ca. 600 g
Operating temperature range Storage temperature range	-20°C ... +60°C (without condensation) -30°C ... +80°C
IP-protection class front panel rear side	 IP65 IP41
Connection technology	connector with pin-marked pushers and 2 bolt flanges on side (cage clamp technology) for cross sections up to max. 1,5mm^2
Load voltage L+	24V DC (11 V ... 30V DC)
Current consumption Power dissipation	50 mA ... 650 mA 2 W (typ.), 10 W (max.)
Start-up current	< 3A
Diagonal of display (inch) Display resolution (pixel)	5,7“ (145mm) PC577V/P: 320x240 Pixel (QVGA)
Display unit Operating unit	TFT display with 16Bit colours analog resisitive touch screen
Visualization software Reference unit	VisuStage PC577V/P

Technical data	CPUs	
CPU-type	**Type V** (PC577**V**)	**Type P** (PC577**P**)
Working memory = battery backed load memory Diagnostic buffer	512kB, thereof 256 kByte remanent data 100 messages (all remanent)	640kB, thereof 384 kByte remanent data 100 messages (all remanent)
Flash internal for visualization external memory card	 4 MByte Micro SD, up to max. 8 GByte	 24 MByte Micro SD, up to max. 8 GByte
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 1.024 32kByte (2kByte per block) in each case 2.048 Byte (16.384 Bit) addressable in each case 2.048 Byte (default set is 128 Byte) 2.048 (remanence adjustable, default set is 0..15) 8 (1 Merkerbyte) in each case 256 (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 compatible products	
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)	
Serial interfaces (protocols)	COM1: RS 232 (free ASCII) COM2: RS 485 (free ASCII, Modbus-RTU)	
Ethernet (protocols)	Ethernet: 10/100 Mbit with CP343 functionality (RFC1006, TCP, UDP, Modbus-TCP)	
CAN (protocols)	CAN-Telegrams (Layer 2), compatible to CANopen® Master 10 kBaud ... 1 MBaud	
Profibus (protocols)	Profibus DP V0 master/ slave 9,6kBaud ... 12 MBaud	

Onboard periphery	7 free slots for INSEVIS periphery modules
Decentral periphery	- INSEVIS- Periphery (with automatic configuration via „ConfigStage“) - all CANopen® slaves according to DS401 - all Profibus DP-V0-slaves - diverse external periphery families

Control panel cut out

Dimensions

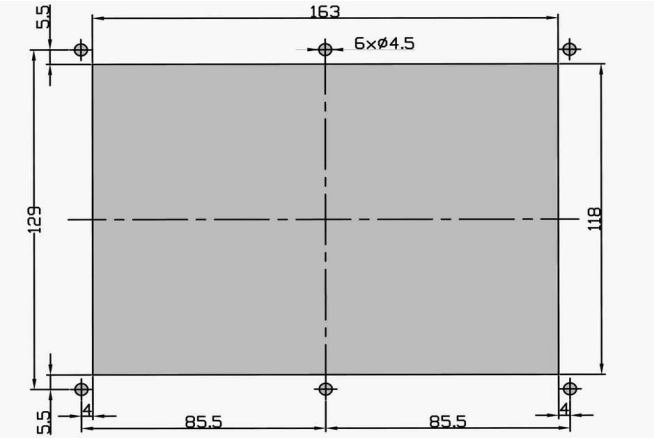
Cut out
W x H (mm) 163 x 118
6 holes with D 4,5mm

Mounting depth
ca. 95mm max.

Wiring outlet
- 45° to the bottom
  rear view and
  horizontal mounting)

- 45° to the left
  (rear view and
  vertical mounting)

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 devices

Identification	Standard	with Profibus DP Master	with Profibus DP Slave
S7-Panel-PLC **PC577V**	PC577V-0-03	PC577V-DPM-03	PC577V-DPS-03
S7-Panel-PLC **PC577P**	PC577P-0-03	PC577P-DPM-03	PC577P-DPS-03

Ordering data of accessoires (Peripheral modules to be ordered separately as required)

Identification / Order-No.	**Identification / Order-No.**
Connector 2x8pin (bolt flanges) / E-CONS16-00	Micro SD-card 2GB (external memory) / E-MSD2-00
Profibus-adapter for 12MBaud-nets / E-AD-DP12	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.

Disclaimer
All technical details in this documentation were created by INSEVIS with highest diligence. Anyhow mistakes could not be excluded, so no responsibility is taken by INSEVIS for the complete correctness of this information. This documentation will reviewed regularly and necessary corrections will be done in next version. With publication of this data all other versions are no longer valid.

Security Guideline
A guide on how to use this product to ensure compliance with the Cyber Resilience Act (CRA) can be found on the INSEVIS website at: INSEVIS Security-Guideline or on request at info@insevis.de.

Disposal
Do 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.