

Product Information

S7-Panel-PLC

PC570V

PC570P



(valid from PLC-version PC570x-xxx-**03**)

Changes to older versions of this document

- Rev. 02** → **03**: Description of Profibus-signals made compatible to Siemens-manuals
- Rev. 03** → **04**: PC580P removed
- Rev. 04** → **05**: New front foil, new images, new design line, connectors added
- Rev. 05** → **06**: Information for disposal of old equipment

Description

Panel-PLC with TFT-color touch display

- PC570V/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-connection with put/get),
 - Send/ Receive via TCP and UDP,
 - Modbus TCP

- **CAN with**
 - protocol compatible to CANopen®
 - layer2-communication
 - with switchable terminate resistors for CAN

- **Micro-SD-slot**
 - for SD-cards up to 8GByte for archieving DBs as csv only (not for storing S7-program – it is 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

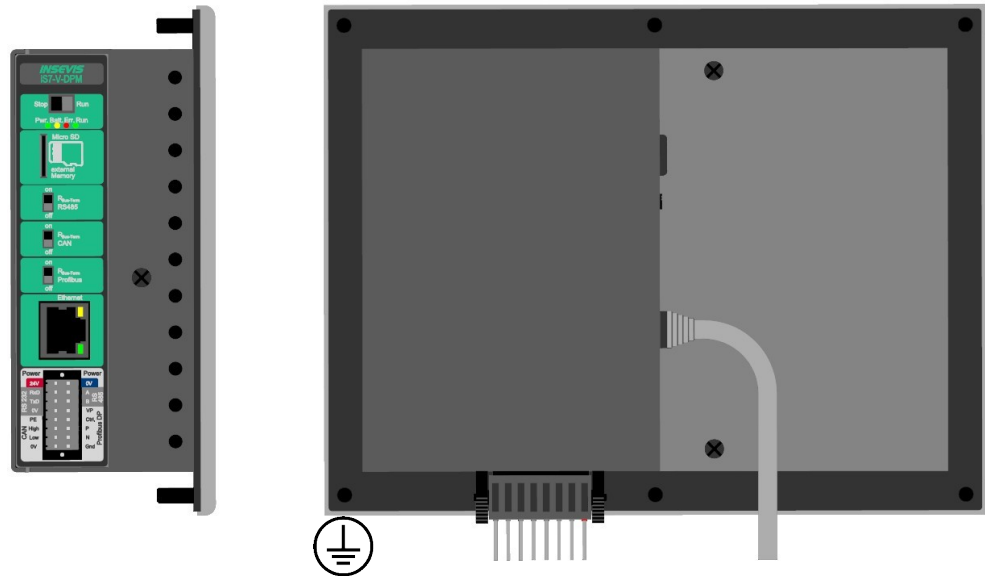


Figure above: Panel-PLCs PC570V, rear view and view from the side

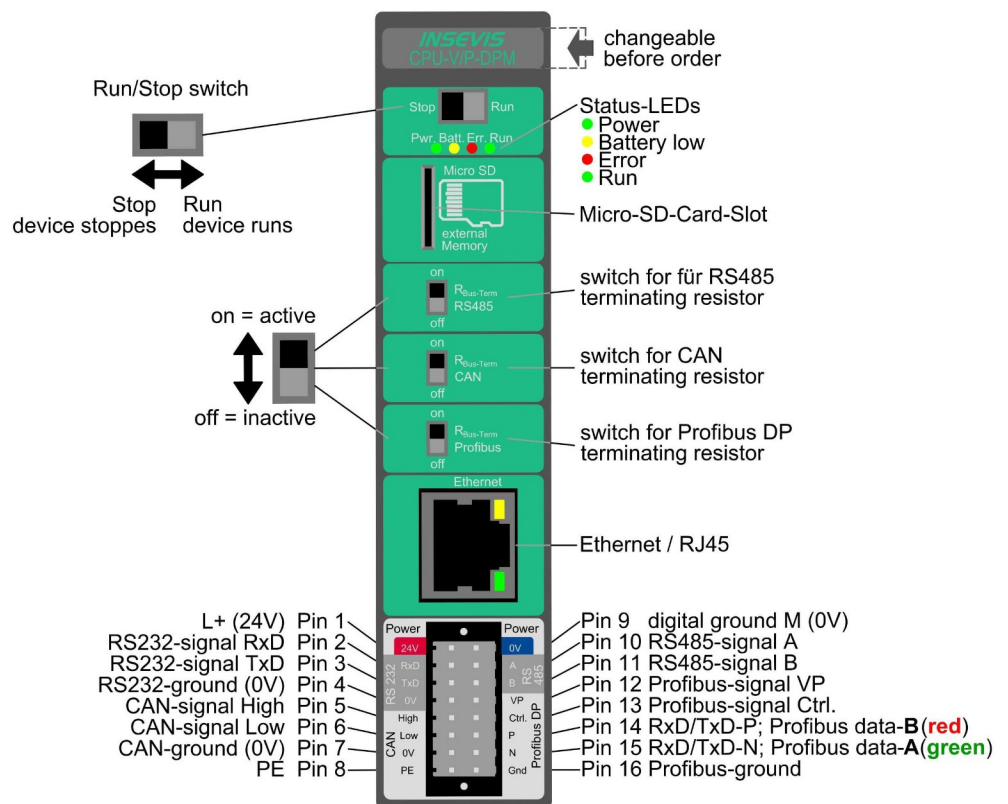


Figure above: Identification of all CPUs of all Panel-PLCs basic devices with CPU-type V and P and with Profibus DP Master

Technical data	Device	
Dimensions W x H x D (mm)	182 x 140 x 49	
Cut out W x H (mm)	163 x 118	
Weight	ca. 600 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	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	50 mA ... 650 mA	
Power dissipation	2 W (typ.), 10 W (max.)	
Start-up current	< 3A	
Diagonal of display (inch)	5,7" (145mm)	
Display resolution (pixel)	PC570V/P: 320x240 Pixel (QVGA)	
Display unit	TFT display with 16Bit colours	
Operating unit	analog resistive touch screen	
Visualization software	VisuStage	
Reference unit	PC570V/P	
Technical data	CPUs	
CPU-type	Type V (PC570V)	Type P (PC570P)
Working memory = battery backed load memory	512kB, thereof 256 kByte remanent data	640kB, thereof 384 kByte remanent data
Diagnostic buffer	100 messages (all remanent)	100 messages (all remanent)
Flash internal for visualization	4 MByte	24 MByte
external memory card	Micro SD, up to max. 8 GByte	Micro SD, up to max. 8 GByte
OB, FC, FB, DB	each 1.024	
Lokal data	32kByte (2kByte per block)	
Number of in- and outputs	in each case 2.048 Byte (16.384 Bit) addressable	
Process image	in each case 2.048 Byte (default set is 128 Byte)	
Number of Merkerbytes	2.048 (remanence adjustable, default set is 0..15)	
Number of Taktmerker	8 (1 Merkerbyte)	
Number of timer, counter	in each case 256 (each remanence adjustable, default set is 0)	
Depth of nesting	up to 16 code blocks	
Real-time clock	yes (accumulator-backed hardware clock)	
elapsed hour counter	1 (32Bit, resolution 1h)	
Program language	STEP 7® - AWL, KOP, FUP, S7-SCL, S7-Graph from SIEMENS	
Program system	SIMATIC® Manager from SIEMENS or compatible products	
Operating system	compatible to S7-300® from Siemens	
Program unit to reference	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	none	
Decentral periphery	<ul style="list-style-type: none"> - INSEVIS- Periphery (with automatic configuration via „ConfigStage“) - all CANopen® slaves according to DS401 - all Profibus DP-Vo-slaves - diverse external periphery families 	

Control panel cut out

Dimensions

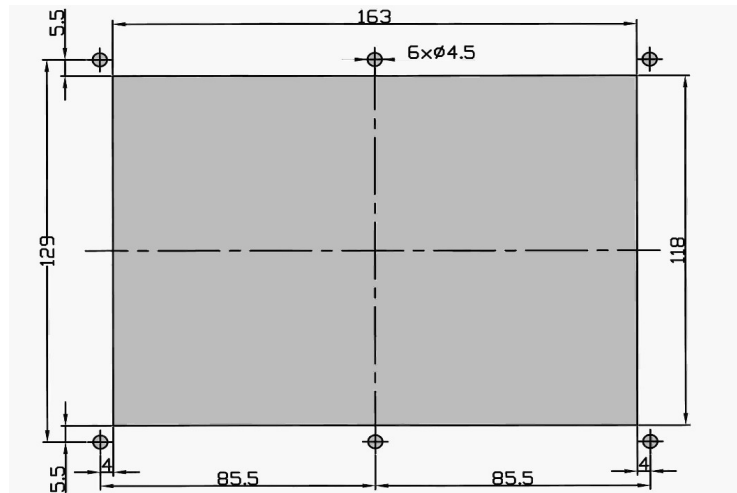
Cut out
W x H (mm) 163 x 118
6 holes with D 4,5mm

Mounting depth
ca. 49mm max.

Wiring outlet

- RJ45: in the center to the right
- connector 2x16 to the bottom
(rear view and horizontal mounting)

- RJ45: in the center down
- connector 2x16 to the left
(rear view and vertical mounting)



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.

Drill jig

Ordering data devices

Identification	Standard	with Profibus DP Master	with Profibus DP Slave
S7-Panel-PLC PC570V	PC570V-0-03	PC570V-DPM-03	PC570V-DPS-03
S7-Panel-PLC PC570P	PC570P-0-03	PC570P-DPM-03	PC570P-DPS-03

Ordering data of accessoires

Identification / Order-No.	Identification / Order-No.
Connector 2x8pin (bolt flanges) / E-CONS16-00	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.

Copyright

This and all other documentation and software, supplied or hosted on INSEVIS web sites to download are copyrighted. Any duplicating of these data in any way without express approval by INSEVIS GmbH is not permitted. All property and copy rights of these documentation and software and every copy of it are reserved to INSEVIS GmbH.

Trade Marks

INSEVIS refers that all trade marks of particular companies used in own documentation are reserved trade marks are property of the particular owners and are subjected to common protection of trade marks.

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.

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.

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