

Product Information

S7-Panel-PLC

PC350V

PC350P



(valid from version PC350x-xxx-**03**)

Changes to older versions of this document

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

Description

Panel-PLC with TFT-color touch display

- PC350V/P
3,5" TFT (320x240 pixel)

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 archiving 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

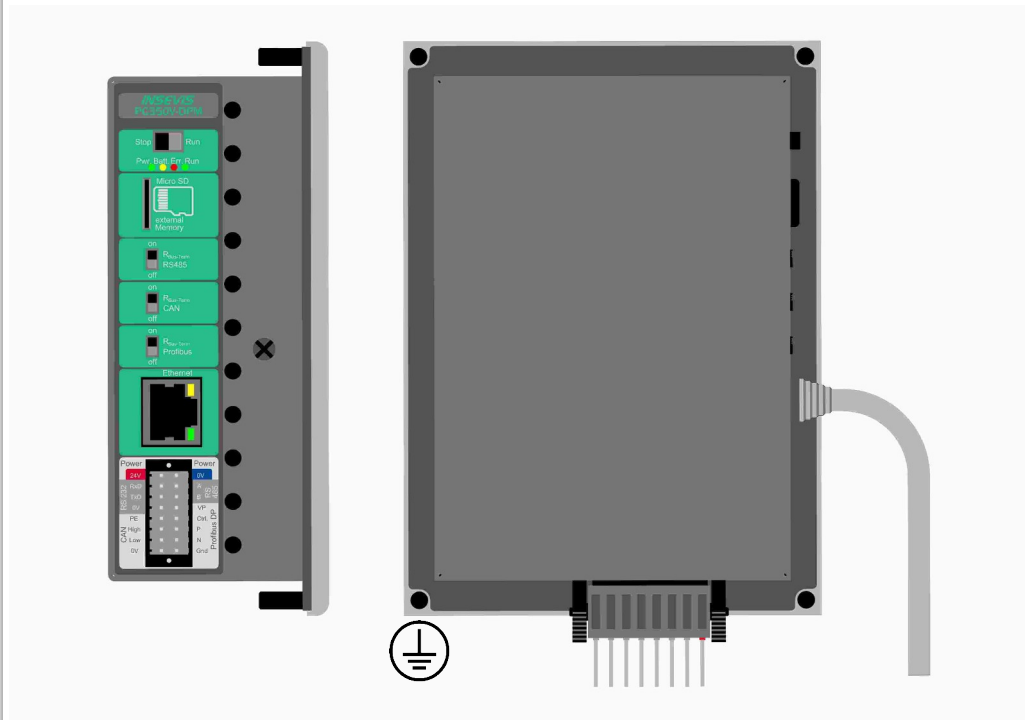


Figure above: Panel-PLC PC350V, rear view and view from the side

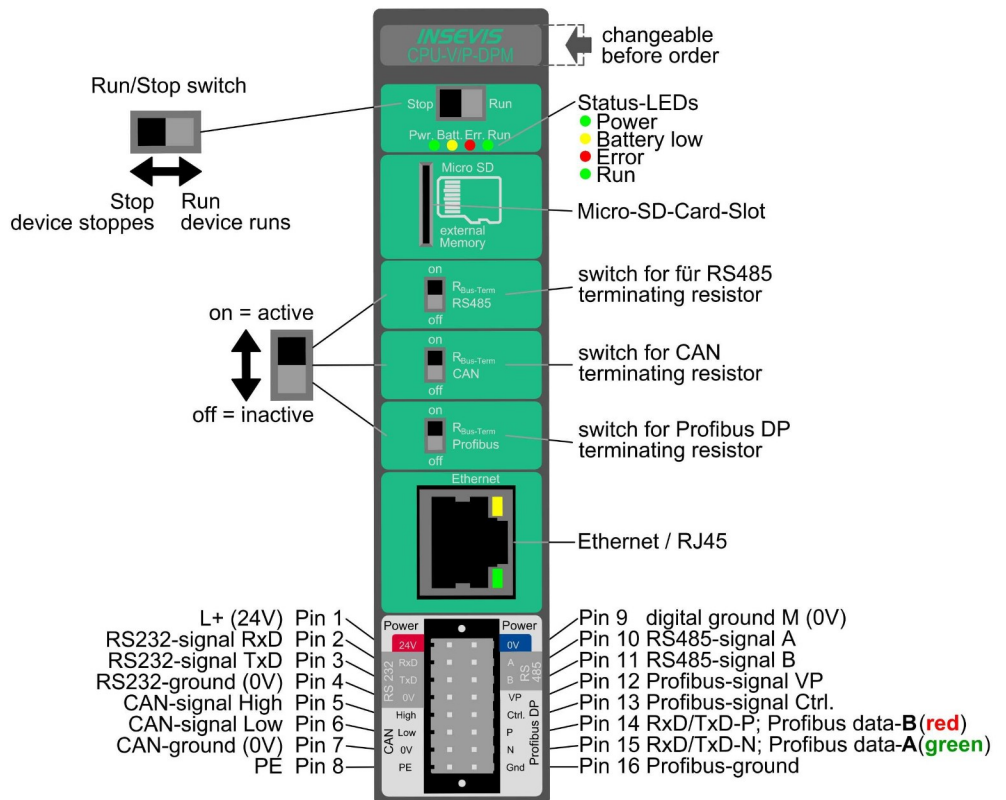


Figure above: Identification of all Panel-PLCs basic devices with CPUs of type V and P with Profibus DP Master

| Technical data | Device | |
|---|--|---|
| Dimensions W x H x D (mm) Cut out W x H (mm) Weight | 132 x 96 x 49 118 x 89 ca. 450 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 | 20 mA ... 350 mA 1,5 W (typ.), 4,2 W (max.) | |
| Start-up current | < 3A | |
| Diagonal of display (inch) Display resolution (pixel) | 3,5" (89mm) 320x240 pixel (QVGA) | |
| Display unit Operating unit | TFT display with 16Bit colours analog resistive touch screen | |
| Visualization software Reference unit | VisuStage PC350 | |
| Technical data | CPUs | |
| CPU-type | Type V (PC350V) | Type P (PC350P) |
| 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 | 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) adressable 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) | | |
| 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 | - 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

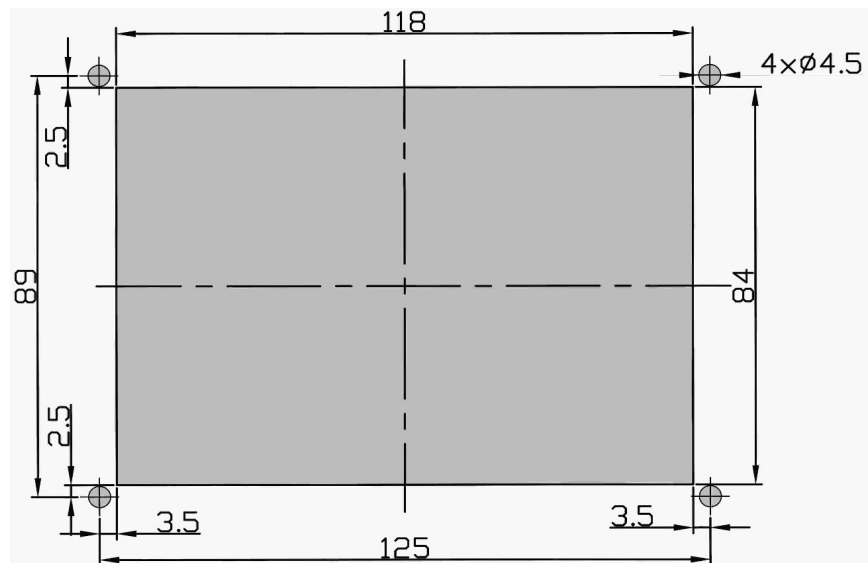
Dimensions

Cut out
W x H (mm) 118 x 84
4 holes with D 4,5mm

Mounting depth
ca. 49mm max.

Wiring outlet
- RJ45 to the top
- 2x16 connector to the right
(rear view and horizontal mounting)

- RJ45 to the right
- 2x16 connector to the bottom
(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 PC350V | PC350V-0-03 | PC350V-DPM-03 | PC350V-DPS-03 |
| S7-Panel-PLC PC350P | PC350P-0-03 | PC350P-DPM-03 | PC350P-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.

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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.

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