# Product Information

# S7-Panel-PLC

# PC1000P



(valid from PLC version PC1000P-xxx-**03**)

## Description

Panel-PLC with **TFT-colour touch panel**

- **PC1000P 10,2“** TFT (800x480 Pixel/ WVGA)

**Standard configuration:**

- **RS232 with**
  - free ASCII-protocol
- **RS485 with**
  - free ASCII-protocol
  - Modbus RTU
  - with switchable teminate resistors for RS485
- **Ethernet with**
  - RFC1006,
  - 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
- **Run/Stop-switch**
- **Staus 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 teminate resistors for Profibus

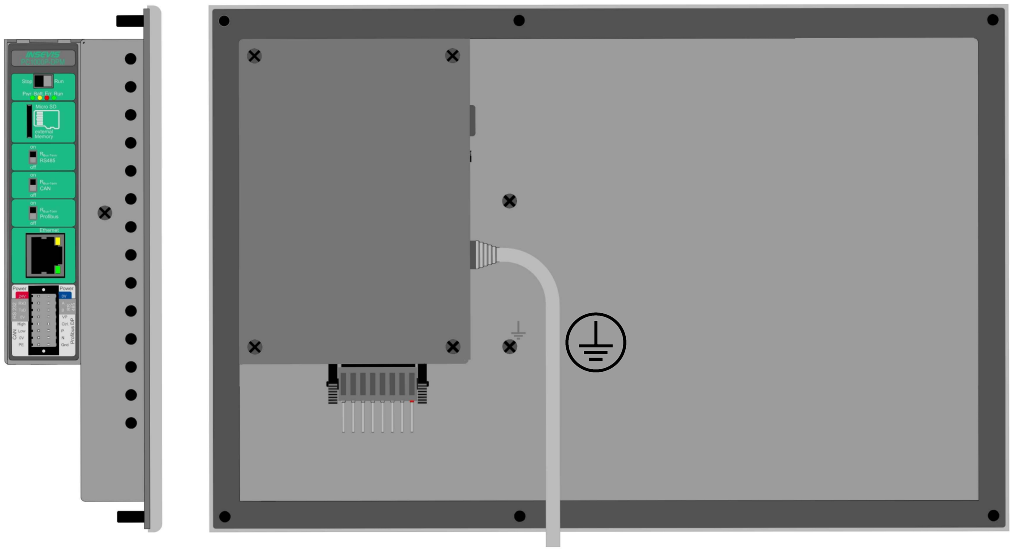


*Figure above: Panel-PLCs PC1000P, rear view and view from the side*

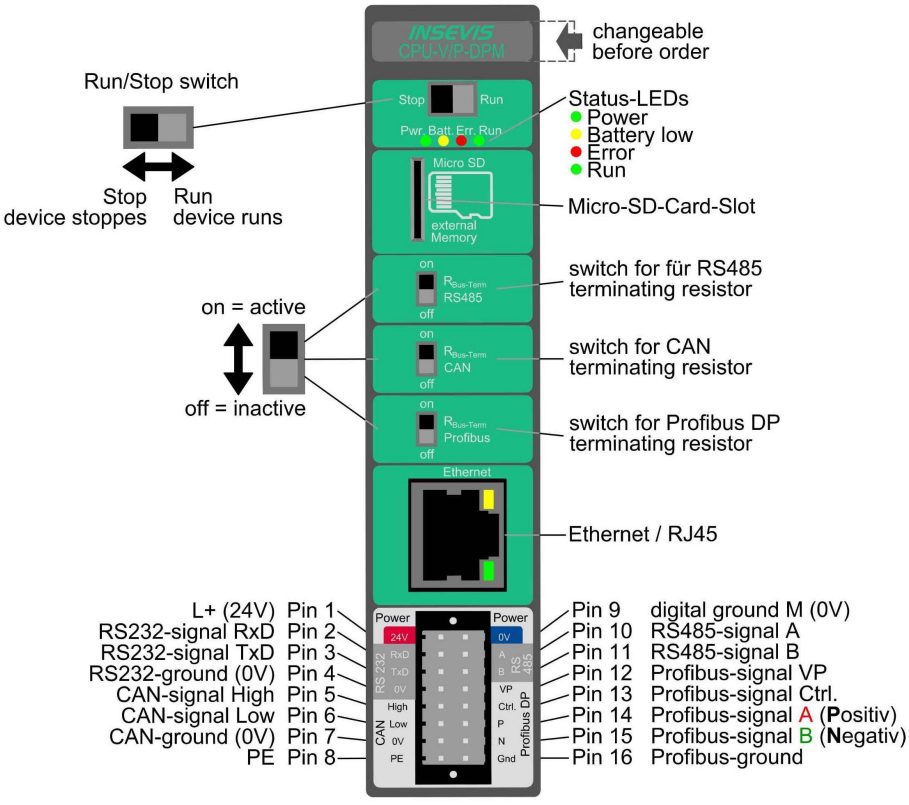



*Figure above:*
*Identification of all CPUs of all Panel-PLCs basic devices with CPUs ValueLine or PowerLine and with Profibus DP Master*

| Technical data | Device |
|---|---|
| Dimensions W x H x D (mm)<br>Cut out W x H (mm)<br>Weight | 286 x 188 x 95<br>262 x 165,5<br>ca. 1000 g |
| Operating temperature range<br>Storage temperature range | -20°C ... +60°C (without condensation)<br>-30°C ... +80°C |
| IP-protection class<br>front panel<br>rear side | <br>IP65<br>IP41 |
| Connection technology | unlockable connector with self-lock and 2 lift-arms<br>(cage clamp technology) for cross section up to max. 1mm² |
| Load voltage L+ | 24V DC (11 V ... 30V DC) |
| Current consumption<br>Power dissipation | 100mA ... 800mA<br>4W(typ.) 10W(max.) |
| Start-up current | < 3A |
| | |
| Diagonal of display (inch)<br>Display resolution (pixel) | 10,2“ (259mm)<br>800x480 Pixel (WVGA) |
| Display unit<br>Operating unit | TFT display with 16Bit colours<br>analog resisitive touch screen |
| Visualization software<br>Reference unit | VisuStage<br>PC1000 |

| Technical data | CPU |
|---|---|
| CPU-Typ | **PowerLine** (PC1000**P**) |
| Working memory = battery backed load memory<br>Diagnostic buffer | 640kB, thereof 384 kByte remanent data<br>100 messages (all remanent) |
| Flash<br>internal for visualization<br>external memory card | <br>24 MByte<br>Micro SD, up to max. 8 GByte (not necessary for operation) |
| OB, FC, FB, DB<br>Lokal data<br>Number of inputs and outputs<br>Process image<br>Number of Merkerbytes<br>Number of Taktmerker<br>Number of timer, counter<br>Depth of nesting | each 1.024<br>32kByte (2kByte per block)<br>in each case 2.048 Byte (16.384 Bit) adressable<br>in each case 2.048 Byte (default set is 128 Byte)<br>2.048 (remanence adjustable, default set is 0..15)<br>8 (1 Merkerbyte)<br>in each case 256 (each remanence adjustable einstellbar, default set is 0)<br>up to 16 code blocks |
| Real-time clock<br>elapsed hour counter | yes (accumulator-backed hardware clock)<br>1 (32Bit, resolution 1h) |
| Program language<br>Program system | STEP 7® - AWL, KOP, FUP, S7-SCL, S7-Graph from SIEMENS<br>SIMATIC® Manager from SIEMENS or kompatible products |
| Operating system<br>Program unit to reference | compatible to S7-300® from SIEMENS<br>CPU 315-2PNDP |
| | |
| Seriell interfaces (protocols) | COM1: RS 232 (free ASCII)<br>COM2: RS 485 (free ASCII, Modbus-RTU) |
| Ethernet (protocols) | Ethernet: 10/100 Mbit with CP343 functionality<br>(RFC1006, TCP, UDP, Modbus-TCP) |
| CAN (protocols) | CAN-Telegramms (Layer 2), kompatible to CANopen® MasterSlave 10 kBaud ... 1 MBaud |
| Profibus (protocols) | Profibus DP V0 master/ slave 9,6kBaud ... 12 MBaud |

| | |
|---|---|
| Onboard periphery | 1none |
| Decentral periphery | - INSEVIS- Periphery (with automatic configuration via „ConfigStage“)<br>- all CANopen® slaves according to DS401<br>- all Profibus DP-V0-slaves<br>- diverse external periphery families |

## Control panel cut out

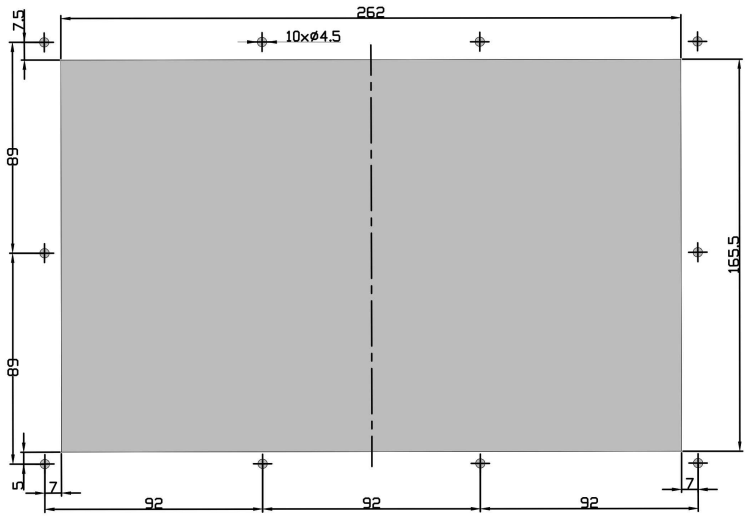
**Dimensions**

Cut out
W x H (mm) 262 x 165,5
10 holes with D 4,5mm

Mounting depth
ca. 50mm max.

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

- RJ45 to the tottom and
- connector 2x16 to the left
  (rear view and
  vertical mounting)




## Documentation and samples

Internet: www.insevis.de

Box: Products / Panel-PLC
Download: TI-PC xxxx.pdf

Box: Documentation
Download: Manual Panel-PLC.pdf

Internet: www.insevis.de
Box: Service
Panel-PLC
INSEVIS provides sample programs for each function, well documented for free download

## Ordering data devices

| Identification | Standard | with Profibus DP Master | with Profibus DP Slave |
|---|---|---|---|
| S7-Panel-SPS **PC1000P** | PC1000P-0-03 | PC1000P-DPM-03 | PC1000P-DPS-03 |

## Ordering data accessoires

| Identification / Order-No. | Identification / Order-No. |
|---|---|
| Peripheriy module **DI16 /** PM-DI16-02 | Peripheriy module **AI8O2 /** PM-AI8O2-02 |
| Peripheriy module **DIO16 /** PM-DIO16-02 | Peripheriy module **AI4O4 /** PM-AI8O2-02 |
| Peripheriy module **DO-4R /** PM-DO4R-02 | Peripheriy module **PT8O2 /** PM-AI8O2PT-02 |
| Functional module **DIO8-Z** (configuration on request) | |
| Connector 2x8pin (for PLC) / E-CON16-00 | VA- Drill jig for 10.2“-devices, stainless steel / E-DRL10-00 |
| Connector 2x10pin (for PM/FM) / E-CON20-00 | Mounting set for 10,2“-devices * / E-MNT10-00 (PU10 pcs.) |
| Connector 1x8pin (for DO4R) / E-CON8-00 | Shield cable support for PC1011 / E-CONPEP11-00 |
| Micro SD-card 1GB (external memory) / E-MSD1-00 | Micro SD-card 4GB (external memory) / E-MSD4-00 |
| Micro SD-card 2GB (external memory) / E-MSD2-00 | Micro SD-card 8GB (external memory) / E-MSD8-00 |
| 3D-doming label with custom logo for front side (PU100 pcs.) | Inserting stripe V for logo and identification for rear side (PU100 pcs.) |
| OEM-Firmware with customized logo included / SW-BS-OEM | Profibus-adapter for 12MBaud-nets / E-AD-DP12 |

* (part of first delivery already)