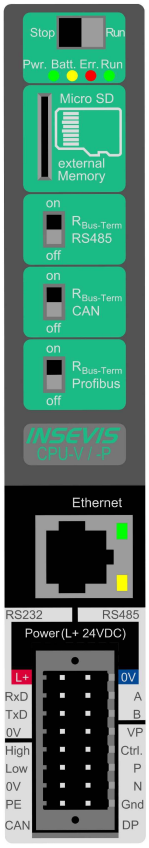
Data to INSEVIS-S7-CPU-V and CPU-P

S7-CPUs from INSEVIS will be implemented into different devices (are not available as single unit). All these devices are described with the CPU-type as letter (-V/-P/-T) in their name extension (e.g. PC350V - CPUV or HMI430T - CPU-T).

Devices with **CPU-V** and **CPU-P** fit properly to small and medium sized applications in the low cost-areas of Panel-PLCs with high graded visualization (Type V best for 3,5 to 5,7“ and Tyep P better for 7 to 10,2“) and with lots of communication interfaces. Profibus is optional available.

CPU-V and CPU-P



Property	Technical data
OB, FC, FB, DB Local data Number of inputs 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 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)
	Communication
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/ slave 10 kBaud ... 1 MBaud
optional interfaces (protocols)	Profibus DP V0 master/ slave 9,6kBaud ... 12 MBaud
	Periphery access
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

Memory	CPU-V	CPU-P
Working memory, thereof buffered by akku	512kB / 256 kByte remanent	640kB / 384 kByte remanent
Load memory	2MB flash memory	2MB flash memory
Memory for visualization	4MB flash memory	24MB flash memory
external memory	Micro SD, up to 8 GB	Micro SD, up to 8 GB

Most important properties at a glance

S7-Programming

Use existing Siemens-S7-programming tools; either Simatic®-Manager or TIA-Portal® in the programming languages KOP, FUP, AWL, SCL.
Or use existing FB´s like for PID in analog operations...

System boot time 4 seconds

No Windows-firmware means to boot up in less than 4 seconds and primarily: no licenses. And also no run-time limitations for tags. Therewith todays devices still may be updateable in more than 10 years...

Individualization

Keep your own logo as 3D-Doming on the front foil or as bitmap fix included in your OEM-firmware, or as inserting stripe with order-no at the rear side? Everything is possible.

Gateway functionality

Ethernet with TCP, UDP, RFC1006 or Modbus TCP, Profibus-DP V0 Master/Slave, CANopen® or Layer2, free ASCII on RS232 and RS485 and Modbus RTU