Data to INSEVIS-S7-CPU-T

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-T** have more memory, a higher speed and can drive larger panels with more visualization objects. They fit perfectly for medium sized automation solutions. 2 separated Ethernet ports for seperated networks or together as an Ethernet switch are onboard. Profinet IO Controller is available as an option. Panel-PLC and Panel-HMIs of the Generation II.

CPU-T

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 4.096 Byte (32.768 Bit) addressable in each case 4.096 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)	Profinet IO Controller
	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 Profinet IO devices

Memory	CPU-V
Working memory / buffered by akku)	1MB / 512 kByte remanent
Load memory	8MB flash memory
Memory for visualization	48MB flash memory
external memory	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...

2 Ethernet ports

Exclusive at the CPU-T:
Use both Ethernet interfaces as separated ports with own IP-address-ranges to drive the PLC as a gateway between office network and machine network.

Know-how-protection

Save your work from illegal copying,
save you know-how to sell it more than once.
Set really heavy protections by free ServiceStage
(Siemens-password functions are still available.)

Gateway functionality

Ethernet with TCP, UDP, RFC1006 or Modbus TCP,
Profinet IO Controller, CANopen® or Layer2,
free ASCII on RS232 and RS485 and Modbus RTU
INSEVIS-S7-PLC - a communication talent.