CPS 500

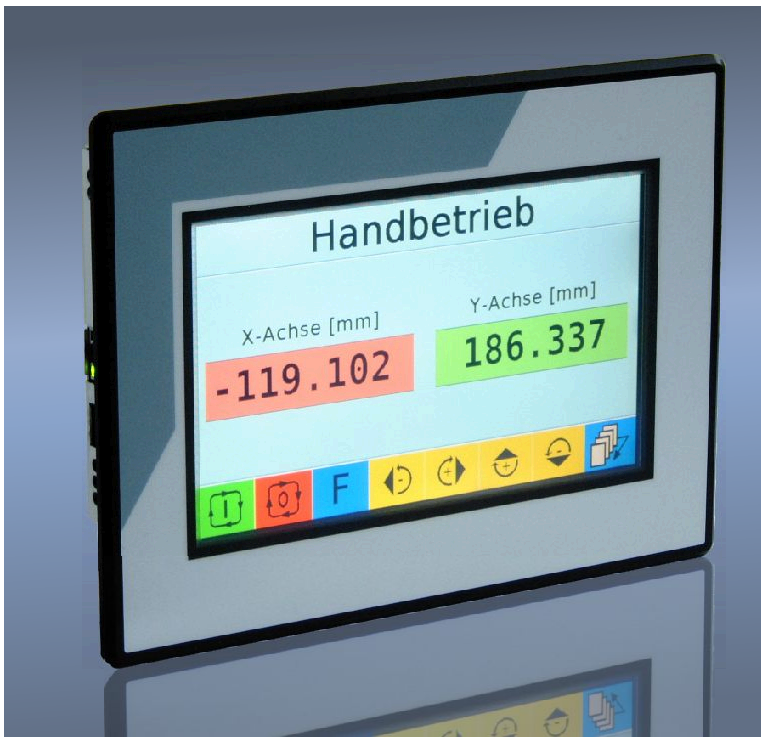
Compact Process System Controller

- HMI, PLC and I/O in one unit
- 7" Wide screen touch display, 262.000 colours
- Digital inputs and outputs onboard
- Analog inputs and outputs onboard
- IEC 61131-3 programmable (CoDeSys)
- Integrated target visualization with CoDeSys
- Ethernet interface
- USB interface
- SD card slot
- Modular I/O extension

all-in-one

CoDeSys

CANopen®



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CPS 500 System Controller

The CPS500 is a complete compact system and includes operation, visualization, a PLC and integrated analog and digital inputs and outputs. There are various fieldbus interfaces available for network integration. Up to 7 extension modules for additional inputs and outputs can be plugged into the device directly and more are addressed via CANopen network. The CANopen master functionality enables to control any slaves. Thus the CPS system is expandable to the requirements with high granularity. It comes with a library for CANopen drives.

Programming

Programming is done entirely under CoDeSys. Everything from the operating interface and visualization to PLC functions and control of remote units via CANopen is programmed in one design environment.This simplifies the engineering effort, because there is no need to define communication interfaces like OPC. The following editors for programming and code generation are available:

SFC	Sequential function chart
IL	Instruction list
FC	Flow chart
LD	Ladder diagram
FBD	Function block diagram
ST	Structured text

Technical data

General:
- 7" Wide screen display 800x480 pixel, 262k colors
  durable LED background lighting
- Integrated touchpanel
- Supply voltage: 24 VDC / 0,2 A (without modules, unloaded)
- Nonvolatile parameter memory (batteryless)
- Dimensions (WxHxD): 213x160x33 mm

Inputs / Outputs:
- 10 Digital inputs: 24 VDC
- 8 Digital outputs: 24 VDC, 0,5 A, short circuit proof
- 2 Analog inputs: 12 Bit (0-10 V / 0-20 mA / ±10V)
- 2 Analog outputs (0 - 10V, 10Bit, max. 5mA)

Miscellaneous:
- Real time clock with 6 weeks power reserve
- Emission/Interference: EN61131-2 Zone B
- Ambient temperature: 0 - 50 °C
- Front panel mounting
- IP65 Front

Memory available under CoDeSys**:**
- 3 MB RAM working memory
- 1 MB Flash-memory
- SD card slot

Interfaces:
- CANopen, CiA compatible, RJ45
  galvanic insulation
  internal supply
  switchable termination
- Ethernet
- USB 2.0 (Device)
- RS232 Terminal interface

Special feature:
Web-Server
Web-Visualization
Remote maintenance via Internet

Extension modules

- Direct mounting: (up to 7 modules)
  - APS114: 8 digital inputs, 8 digital outputs
  - APS133: 6 analog differential inputs +/-10V or +/-20mA, 3 analog outputs 0...10V
  - APS171: axis module for 1 position controlled axis, +/-10V output, 4 axis related inputs

- Via CAN:
  - remote (decentral) I/O-modules
  - Valve cluster
  - Fieldbus-Boxes
  - Drives
  - Integrated drives
  - ...

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