esitron®
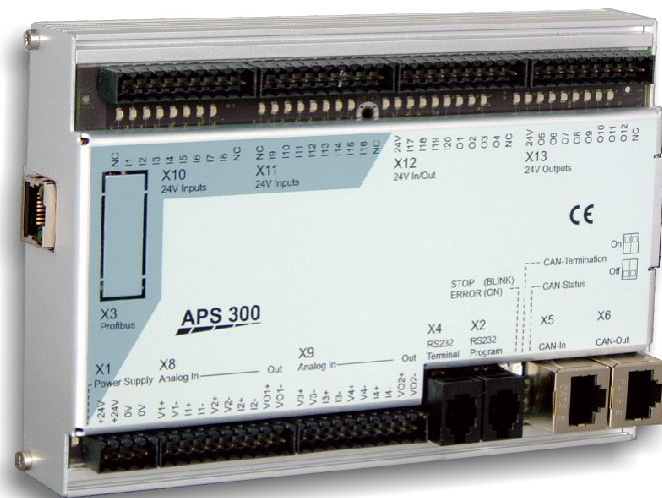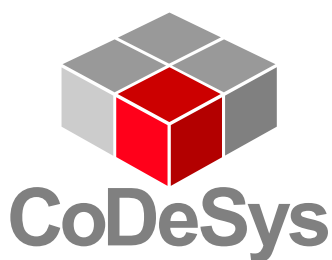
APS300

Automation Positioning PLC

- Compact unit

- CANopen master

- Comprehensive PLC-functions

- IEC 61131-3 programmable (CoDeSys)

- Analog an digital in- and outputs

- LED status display

- Modular extensible

- Optional: Profibus-DP slave interface

- Optional: Ethernet programming interface

- Reduced wiring effort with sensor-actor plugs

CoDeSys

CANopen®

PROFI BUS®

The scalable APS-System grows to your demands.

The APS300 is a compact controller, programmable with CoDeSys. It has integrated analog and digital in- and outputs. Up to 7 extension modules can be pluged into it's extension port. Further modules can be connected via CANopen. The CANopen master function allows the control of any slaves. There is a library available to communicate with drives.

Programming

There are graphical and text editors available under CoDeSys. All APS functions are supported in any programming language. The user may chose the language which suits him best.
Furthermore, there is free graphical editor (CFC). This means the elements can be placed anywhere.
Among the elemets of the processing list are component, input, output, jump, label, return and comment.

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

Technical Data

General
- Power supply voltage 24 VDC ± 20% / 0,1 A (unloaded)
- Power fail safe parameter-memory (without battery)
- Dimensions (WxDxH): 165x115x40 mm

In-/Outputs
- 20 Digital inputs: 24 VDC
- 12 Digital outputs: 24 VDC, 0,5 A, short circuit proof
- 4 Analog inputs, 12 bit resolution, (0...10V / 0...20mA)
- 2 Analog outputs (0 - 10V, 12Bit, PWM, max. 5mA)

Miscellaneous:
- Realtime clock with 6 weeks power reserve
- Emission/Interference: EN61131-2 Zone B
- Ambient temperature: 0 - 50 °C
- Mounting on 35 mm DIN-rail
- weight: ca. 0,46kg

Memory:
- 510 kB Program memory
- 256 kB Data memory
- 8 kB retain variables

Interfaces:
- CAN, CiA compatible, RJ45
  galvanic insulation
  internal supply
  switchable termination
- Profibus-DP Interface, Sub-D 9
  (optional)
- RS232 Terminal interface
- RS232 Programming interface
- Ethernet Programming interface
  (optional)

Extension modules:

- Direct mounting: (up to 7 modules)
  - APS114: 8 digital inputs, 8 digital outputs
  - APS133: 6 analog differential inputs +/-10V or +/-20mA, 4 analog ouputs 0...10V
  - APS171: axis module for 1 position controlled axis, +/-10V output, 4 axis related inputs
- Via CAN:
  - various I/O-modules, e.g. APS40, APS40IP, APS60, ...

Operator terminals

- HBG10: Handheld terminal with emergance stop and optional handwheel
  Illuminated LCD-Display, 35 free inscribable function keys, multible allocatable
- VTxx-series: Touchpanels, 4" - 12,1" screen, own intelligence, recipe memory
  dynamic texts and pictures, backlight
- BT20/BT24: User terminal, function keys, number block
  Illuminated 2x24 character display
- BT300: User terminal, 10 function keys, number block
  Illuminated 4x40 character display
- Any terminal can be connected via Modbus.