

Series P50/P100



Modular positioning system up to 6 axes, with industry PC and programmable PLC

Series P50/P100 Modular Positioning System

General: To manage the complexity of machine performance, *ELGO* developed a modular position system with integrated PLC. The basic idea is that *ELGO* delivers a hardware that consists of terminal and PLC. Two variants are available. For the terminals you could select between an IPC with or without touch screen function or a low cost variant with monochrome display. The PLC peripheries can be divided into 1-4 and 1-6 axes. The customer can program his application by using the program language CoDeSys very simple. To measure the position every axis can read incremental or absolute encoder. The axes could be controlled by digital or PID outputs.





- Can be plugged in 72 pole. Simm Socket)
- 2 axes for each plug-in card
- Worked satisfactorily construction units
- Analog output short circuit proof
- up to 250 kHz counting frequency
- High speed 16 bits CPU(INFINEON SAB C 167CR)
- Clock frequency 40 MHz
- 2 x RS-232 (expandable around 2 further RS-232 and/or RS- 485), 1 x CAN
- International electronical commission 61131- 3 programmable
- Stand alone capable
- 256 KBytes application code memory & data memory
- Cycle time 2 ms to 1000 commands
- 16 digitally inputs
- 16 digitally outputs, PNP-500 mA, Diag LED (overcurrent display)
- Positioning and output driver cards can be plugged in
- Additional ones of 16 outputs to the 4 resp. 6-axes digital positioning (thus as SPS of auxiliary exits usable)
- 1...4 resp. 6 motor feedback inputs incremental or absolute measuring systems RS422 and A/B inputs on one connector)

For both systems (P50 and P100) the same basis was used, because of that the terminals and PLC-boards can be combined arbitrarily!





All system connections from the CPU/PLC subsystem to the components are made by patch cables plug-in.



Assembly of the modules:

Plastic - housing for snap in Into DIN norm rails



SPS - computer language

CoDeSys:

CoDeSys stands for CONTROLLER development system and is a development environment for controls. CoDeSys makes a simple entrance for the SPS programmer possible into the powerful language means of the International Electronical Commission. The use of the editors and the debugging functions has the matured development environments of higher programming languages to the model (as for instance Visual C++).

Advantages:

- Virtual start-up by integrated simulation mode
- Real time debugging
- Cut of the turn-around times
- Detailed project planning and documentation
- Importing external projects
- Project comparison e. g. to the assumption of modules from other projects

Plate shears



Profile bending machines



Sawing machines



Press braking machines



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