

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 positioning 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.



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

CAN-I/O - Modul Expansion modul	I/O Modul Can be plugged in (72 pole. Simm Socket) 1 6 outputs 50 mA by outputs Push-Pull or 500 mA (PNP open collector)
 16 digital inputs 16 digital 500 mA outputs, PNP (16 x 50 mA PNP/push-pull (short Diagnosis LED overcurrent indicat Connection to the PLC over Patch cable confection neccessary) Max. 32 Can I/O modules (384 i addressing) DIP SWITCHes to the I/O configu Additional power supply for output 	short-circuit proofed) or -circuit proofed) tion a cable PLC (no more inputs and outputs for tration ut drivers



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 controllers. CoDeSys makes a simple entrance for the SPS programmer possible.

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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