SINGLE-AXIS MULTIFUNCTION CONTROLLER

Small-sized and compact-shaped NEOS features a single axis controller with great potential. Its embedded PLC allows to configure several functional options, tailoring **NEOS** for any application in the counting and positioning field as well as for the development of simple logic circuits.
The Integrated Development Environment Elap CmStudio allows to create the PLC program and to configure the user graphical interface.

SOME APPLICATIONS:

- Sheet working and cutting machinery
- Glass working machinery
- Textile machinery
- Sawing machines
- Food processing machinery
- Wood-working machinery
- Ideal for jig positioning control on cutting machines

CmStudio

The Integrated Development Environment Elap CmStudio allows to create the PLC program and to configure the graphical interface via PC.

Compatible to OS Windows 98 and upgrades

HARDWARE

- CPU 8 bit 4 MIPS
- Flash memory 32 Kbyte
- RAM/Flash memory for user programs, data, pages:
  2 Kbyte for PLC, 2.5 Kbyte for pages and recipes

USER INTERFACE:

- Polyester KEYBOARD with 20 keys, 9 with programmable functions:
  - 5 keys in display area/function keys
  - 2 navigation keys
  - numeric pad
- LCD GRAPHICAL REAR LIGHTED LED DISPLAY 128x64 pixel
  - text pages
  - messages
  - storable data structures with indexed access (recipes)
  - 16x16 pixel icons

GENERAL SPECIFICATIONS

- Supply 24 Vdc ±15% 10 Watt max/19.5 Vac ± 10% 10 VA
- Connections:
  extractable terminal box: supply, digital I/O, encoder
  DE9 connector: serial port
- Data memory on FLASH EEPROM
- Front case protection degree: IP65
  Sealing to panel is advised to grant the system protection

PLC RESOURCE ASSIGNEMENT

Resource		Store	Reset
6	input	no	no
6	output	no	yes
48	inside relays	m2.0 to m2.15	m0.0 to m1.15
6	system func. bits	yes	no
10	axis control bits	no	yes
10	axis sign. bits	no	yes
12	timer	no	yes
132	data register (bytes)	b36 to b131	b0 to b35
	axis parameters	yes	no

SPECIFICATIONS AND PERFORMANCES

- Control over 1 axis
- EMBEDDED PLC, programming language: LADDER or Mnemonic, Programmable via PC by means of IDE CmStudio
- Programmable user interface
- Graphical pages handled
- Several software applications available
- Possibility to develop customized software

INTERFACE TO THE FIELD:

DIGITAL INPUTS:	6 optoisolated inputs
DIGITAL OUTPUTS:	4 optoisolated outputs 500 mA 2 optoisolated outputs 1 A
INCREMENTAL ENCODER :	5 Vdc line driver RS422 bidirectional count input with zero reference reading, 400 KHz frequency Optional: 5 or 12 Vdc push-pull or NPN open collector input, 12 Vdc line driver input
AXIS COMMAND:	±10 Vdc differential analogue output with 12 bit resolution ON/OFF command possible
COMMUNICATION:	1 serial port RS232 or RS485