

elap NEOS N1

SINGLE AXIS CONTROLLER with embedded PLC

- *Control over 1 axis*
- *embedded PLC, LADDER or Mnemonic programming*
- *Programmable user interface*
- *Graphical pages handled*
- *Application programs available*

Small-sized and compact-shaped **NEOS N1** features a *single axis controller* with great potential.

Its embedded PLC allows to configurate 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 configurate the user graphical interface.

HARDWARE

- **CPU** 8 bit 4 MIPS
- **Flash memory** 32 Kbyte
- **RAM/Flash memory** for user programs, pages and data: 3.6 Kbyte for the PLC + 32 Kbyte for pages and recipes

USER INTERFACE

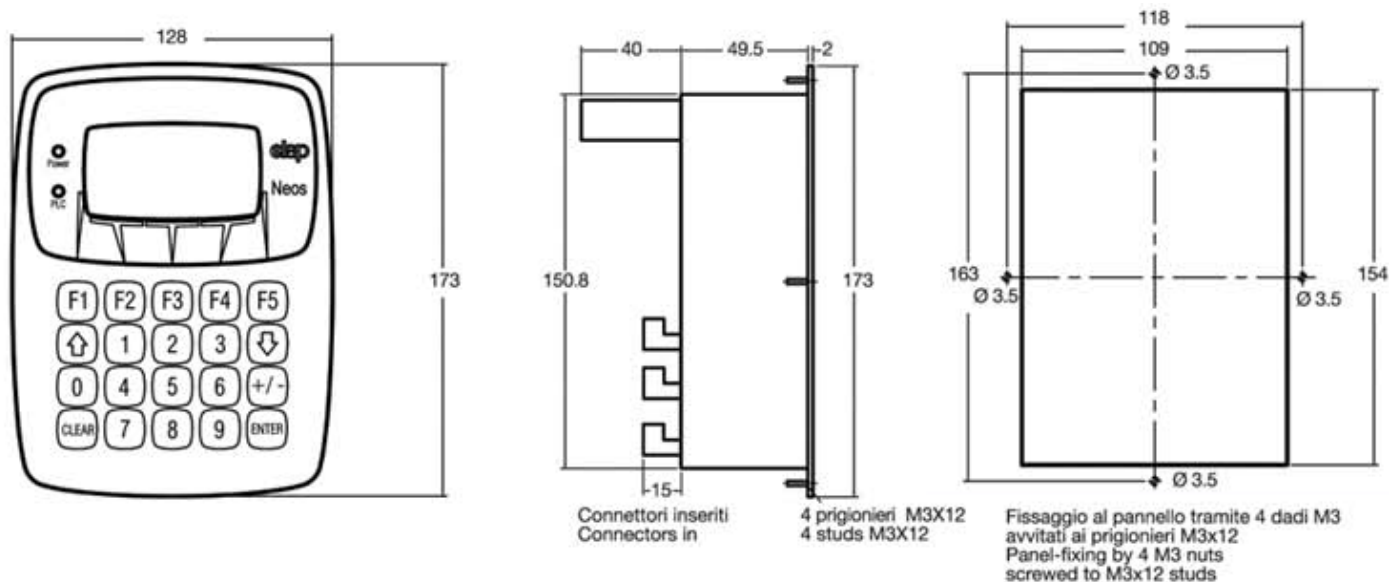
- Polyester **KEYBOARD** with 20 keys, 9 with programmable functions, i.e.:
 - 5 keys in the display area and/or function keys
 - 2 navigation keys
 - 1 reset or alarm display key
 - numerical pad
- **LCD GRAPHIC LED DISPLAY**, rear-lighted 128x64 pixel
 - expansible text pages
 - messages
 - storable data structures with indexed access (recipes)
 - images up to 16x16 pixel for icons and animation

INTERFACE TO THE FIELD

- **DIGITAL INPUTS:** 6 optoisolated inputs
- **DIGITAL OUTPUTS:** 4 500-mAmp optoisolated outputs
2 1-Amp solid state NPN outputs
- **INCREMENTAL ENCODERS:** 5 Vdc Line driver (RS422) bidirectional count input with zero reference reading, frequency 400 KHz
Optional: 5 or 12 Vdc push-pull/NPN open collector, 12 Vdc line driver
- **AXIS COMMAND:** 1 ± 10 Vdc differential analog output 12 bit resolution. ON/OFF axes control possible
- **COMMUNICATION:** 1 serial port RS232 or RS485
- **VERSION SA:** 1 potentiometer input + 3 PNP inputs



DIMENSIONS



GENERAL SPECIFICATIONS

- Supply 24Vdc \pm 15% 10 Watt max./19,5Vac \pm 10% 10VA
- Frontal protection degree: IP65
- Connections:
 - extractible terminal box: supply, digital I/O
 - Canon connector: encoder, I/O analogici, porta seriale serial port
- Data memory on Flash EEPROM

ORDERING INFORMATION

NEOS N1	1 axis	6+6 I/O	5 Vdc LD	R
				<u>Serial line</u> R = 1 serial port RS232 S = 1 serial port RS485
				<u>Count input</u> 5 Vdc line driver/push pull/open collector 12 Vdc line driver/ push pull/open collector
				<u>Inputs/outputs</u> 6 + 6 I/O PNP 3i+6o PNP (version SA)
				<u>Axes number</u> 1 = axis
<u>Type</u> NEOS N1				

