MULTIFUNCTION CONTROLLER

Engineered to simplify the programming operations of the work cycles for the processing machines of all manufacturing fields, NEXUS joins the functional flexibility of the PLC with the absolute novelty of its interface completely programmable by the user by means of NEXUS-Wintools, a software developed by ELAP.

The storable data structures with indexed access (receipts) allow to fit the configuration of the user interface to the most different application requirements.

SOME APPLICATIONS:

Sheat working and cutting machinery

Glass working machinery

Marble working machines

Winding machines

Textile machinery

Sawing machines

Packing machinery

Food Processing machinery

Palletizers

Wood-working machinery

Cutting optimazation

SPECIFICATIONS AND PERFORMANCES

Control over 2 to 4 axes

Embedded PLC, programming language: LADDER or AWL

Programmable user interface

Graphical pages handled

Main bus for I/O expansion

Arrangement for further field buses

(profibus, canbus, interbus)

Removable support for the storage

of data and receipts

HARDWARE

• CPU 32 bit RISC

Flash Memory 256Kbyte, 32 Kbyte reserved for the

PLC program

RAM Memory for user programs, data, pages:

256 Kbyte espansible up to 2 Mbyte

RAM Memory for PLC data: 4K byte expansible

A1 12.34 A2 5.27 A3 -700 A4 800 B1 12 13 14 15 11 2 3 -1

INTERFACE TO THE FIELD

DIGITAL INPUTS: 16÷32 optoisolated inputs, and

4 devoted to the interrupt handle

DIGITAL OUTPUTS: 16÷32 optoisolated outputs

I/O EXPANSION MODULES

INCREMENTAL ENCODERS: 2÷4 bidirectional count inputs

5 Vdc Line Driver with zero reference

reading, frequency 500 KHz

AXIS COMMAND: 2 to 4 ±10Vdc analogue outputs

with 12 bit resolution (15 bit optional) Possibility to command ON/OFF axes

ANALOGUE INPUTS: 4 0÷5 Vdc analogue inputs

with 10 bit resolution

ALARMS: 1 contact for system watch-dog

COMUNICATION: 2 serial ports RS232 or 1 serial port

RS232 + 1 serial port RS485

GENERAL SPECIFICATIONS

Front case protection degree IP65

Supply 24 Vdc ±15% 36 Watt max.

Connections:

extractable terminal box: supply, digital I/O Canon connectors: encoder, analogue I/O

Lithium battery min. 5 years life

USER INTERFACE

Polyester keyboard with 41 golden-contacts keys, every one with programmable functions, i.e.:

8 keys in the display area

10 function keys with label indication

8 navigation keys

1 key for the reset function or alarm display numerical pad START and STOP push-buttons

25 programmable signalling LEDs

GRAPHIC REAR-LIGHTED DISPLAY 240x128 pixel

128 expansible text pages

25 bit-map backgrounds 240x128 pixel

256 messagges, each by 30 byte

storable data structures with indexed access (receipts)

THANKS TO THE HIGH PROTECTION DEGREE

OF THE FRONT CASE (IP65) NEXUS

CAN BE USED IN SEVERE INDUSTRIAL ENVIROMENTS