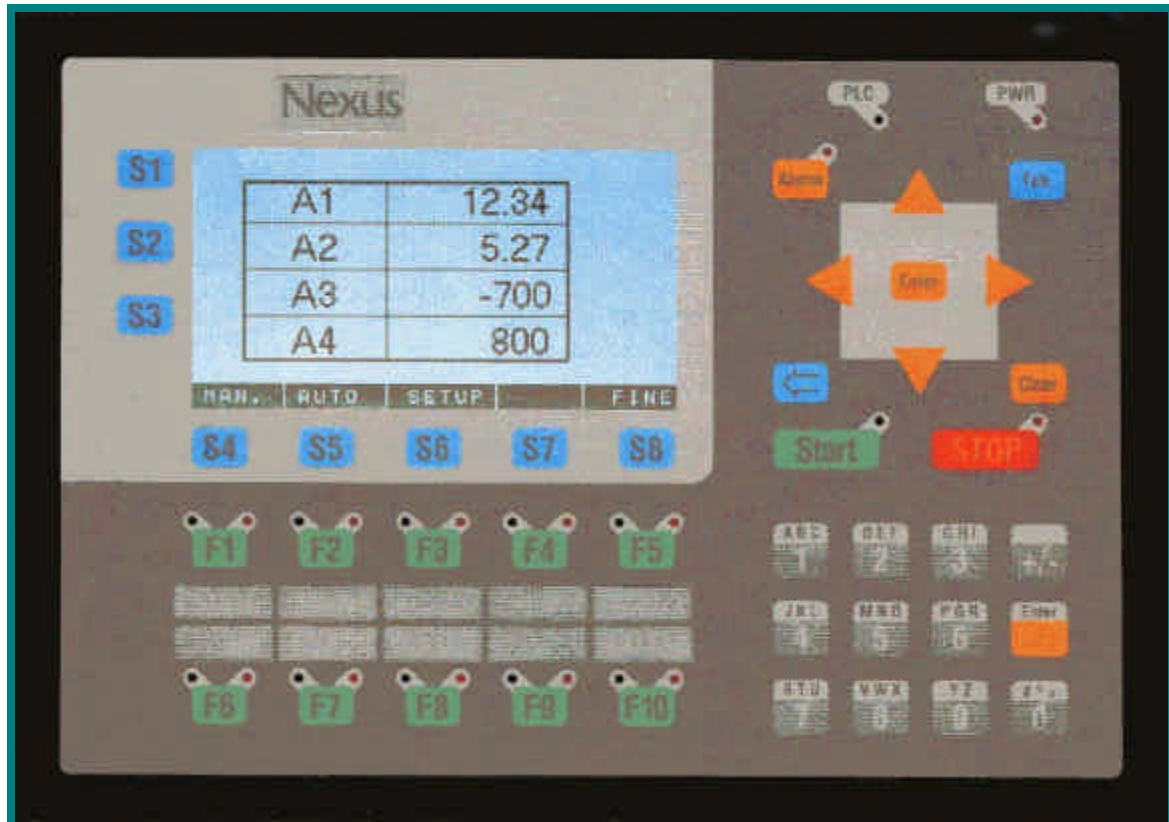# Nexus

MULTIFUNCTION CONTROLLER

- **Control over 2 or 4 axes**
- **Embedded PLC**
- **Graphical pages handled**
- **Interface completely programmable by the user**
- **Field bus**

I.O. LANGQI

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Nexus

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.

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, wood-working machinery

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
- Removable support for the storage of data and receipts

HARDWARE:

- CPU 32 bit RISC
- Flash memory 256kbyte, 32kbyte reserved for the PLC program
- RAM memory for user programs, data, pages: 256kbyte expansible up to 2 Mbyte
- RAM memory for PLC data: 4kbyte expansible

INTERFACE TO THE FIELD:

- DIGITAL INPUTS: 16÷32 optoisolated inputs, and 4 devoted to the interrupt handle
- DIGITAL OUTPUTS: 16÷32 optoisolated inputs
- I/O EXPANSION MODULES
- INCREMENTAL ENCODERS: 2÷4 bidirectional count inputs 5Vdc Line Driver with zero reference reading, frequency 500kHz
- 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÷5Vdc analogue inputs with 10 bit resolution
- COMUNICATION: 2 serial ports RS232 or 1 serial port

GENERAL SPECIFICATIONS:

- Front case protection degree: IP65
- Supply: 24Vdc ± 15% 36Watt 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, everyone with programmable functions
- Graphic rear-lighted display 240x128 pixel; 128 expansible text pages