

Engineered to make the control of work cycles on processing machines easy and efficient, LYNX avails on a PLC allowing to integrate it perfectly into the handling system.

Thanks to the storable data structures with indexed access (recipes) the program storing and recalling results extremely simple. A series of tasks and programs specially created for the execution of mathematical and graphic functions are available on request.

The peculiar technology applied to keyboard construction allows to obtain customized versions even in limited series.

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 optimization

SPECIFICATIONS AND PERFORMANCES

- Control over 2 axes
- Embedded PLC, programming language: LADDER or Mnemonic
- Programmable user interface
- Graphical pages handled
- Main bus for I/O expansion

HARDWARE

- CPU 32 bit RISC
- Flash Memory 256 Kbyte
- RAM Memory for user programs, data, pages: 256 Kbyte expansible up to 2 Mbyte

INTERFACE TO THE FIELD

- DIGITAL INPUTS: 16÷32 optoisolated inputs, and 4 devoted to the interrupt command
- DIGITAL OUTPUTS: 16÷32 optoisolated outputs
- EXPANSION MODULES: 16 inputs + 16 outputs DIN bar fixing
- INCREMENTAL ENCODER: 2 bidirectional count inputs 5 Vdc line driver with zero reference reading, frequency 500 KHz
- AXIS COMMAND: 2 ± 10Vdc analogue outputs with 12 bit resolution 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 RS485

GENERAL SPECIFICATIONS

- Front case protection degree IP65
- Supply 24 Vdc ±15% 34 Watt max.
Connections:
extractable terminal box: supply, digital I/O.
Canon connectors: encoder, analogue I/O, serial ports
on request: digital outputs on relay modules
- Lithium battery min. 5 years life

USER INTERFACE

- Polyester KEYBOARD with 37 keys, every one with programmable functions, i.e.:
 - 5 keys in the display area
 - 10 function keys
 - 7 navigation keys
 - 1 key for the reset function or alarm display
- numerical pad
- START and STOP push-buttons with LED
- 13 programmable signalling LEDs
- GRAPHIC REAR-LIGHTED DISPLAY 240x64 pixel
 - 128 expansible text pages
 - 25 bit-map backgrounds 240x64 pixel
 - 256 messages, each by 30 byte
 - storable data structures with indexed access (recipes)
 - 64 images by 64x64 pixel for icons and animation
 - texts handled in four languages
 - full compatibility with the applications implemented on Elap Nexus controller



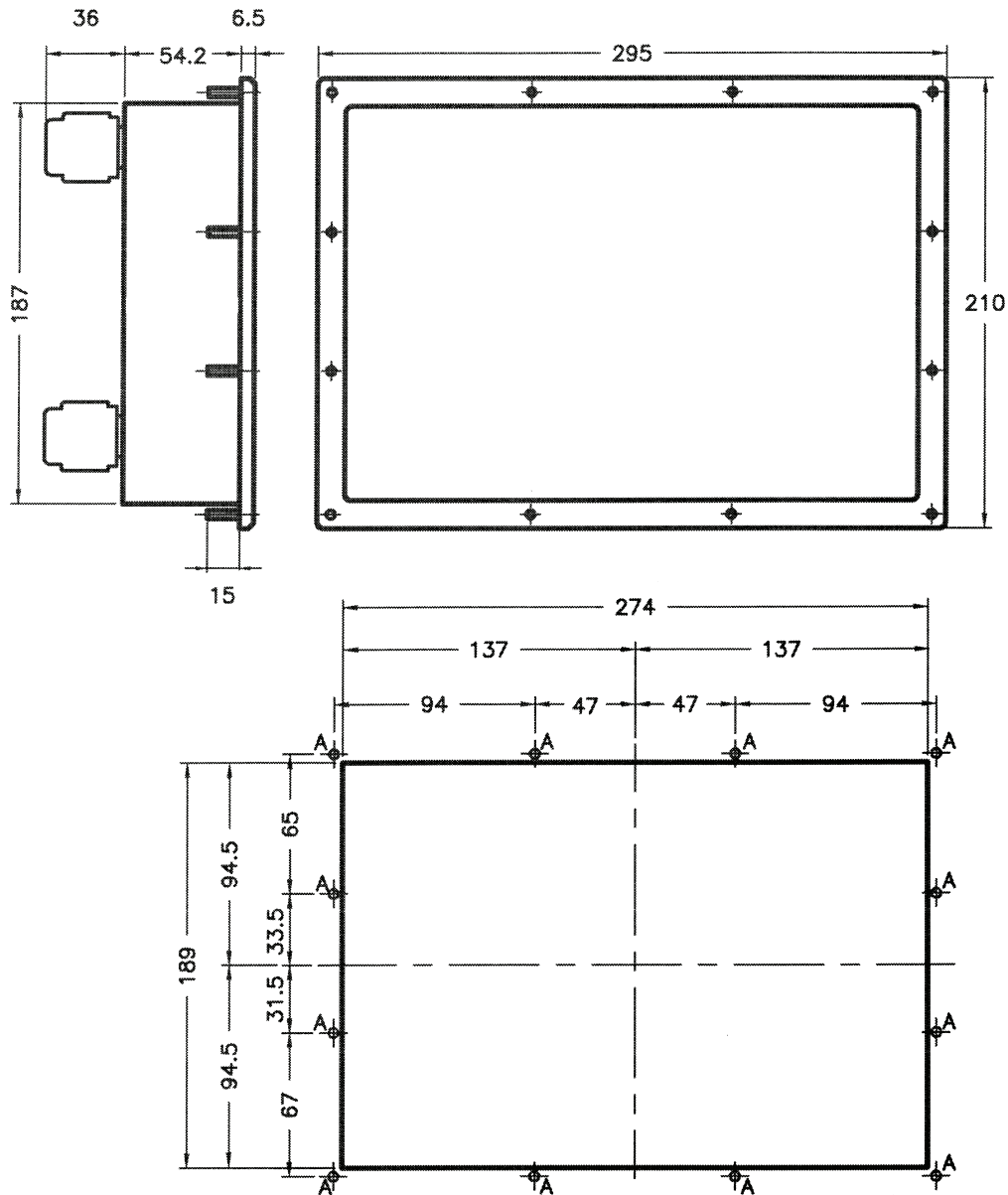
THANKS TO THE HIGH PROTECTION DEGREE

OF THE FRONT CASE (IP65) LYNX

CAN BE USED IN SEVERE INDUSTRIAL ENVIROMENTS

Lynx

DIMENSIONI D'INGOMBRO DIMENSIONS



Dimensioni della finestra per l'incasso
dello strumento a pannello
A = Fori Ø 4.5 mm

Panel cut off
A = Holes Ø 4.5 mm

elap



Modbus Network For The Controllers Series Nexus, Lynx, Vega, Neos

Starting from the present moment the **Modbus RTU protocol** can be used to create a **network connection including the controllers series Nexus, Lynx, Vega and Neos**, through the serial port COM1.

The **Modbus protocol allows for communication between different devices connected to the same serial line (RS485)**; each device is identified by a unique software address (1 to 247), which is programmed inside each single device.

The communication parameters (baudrate, parity check and stop bit) relating to the instruments can be modified to meet the network requirements.

Any Nexus, Vega or Lynx unit can be used as network Master, if programmed accordingly. The I/O expansion module (A2018068) can be included in the slave network.

The request for the Modbus firmware must be specified when ordering a controller of the series.

Our Technical Experts will be pleased to let you know further information on the matter: please, feel free to contact our Technical Department by phone or via e-mail to applicazioni@elap.it.



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