

elap VEGA+

Multifunctional Controller With Embedded PLC

Touch screen

- Control over one or two digital axes
- Embedded PLC, Ladder or Mnemonic programming
- Touch screen
- Graphical pages handled
- Interface completely programmable via PC
- Main bus for I/O expansion
- Compatible with **VEGA**
- Modbus RTU communication protocol

New graphical design and a powerful man-machine interface are the main features of the **new controller VEGA+**.

The wide **TFT color display** is rear-lighted. Its **touch screen functions** are easily set by means of a dedicated program.

VEGA+ controls **one or two digital axes** with **12 bit analogue output**; its mighty **embedded PLC** can be programmed **both in Ladder and in Mnemonic language**.

VEGA+ hardware specifications are consistent with **VEGA** prior version, while its software was enhanced to handle the touch screen functionalities.

VEGA PLC programs and tasks are compatible with VEGA+ applications.

HARDWARE

- CPU 32 bit RISC 65 MIPS
- 256 Kbyte Flash memory
- 128 Kbyte RAM for user programs, data and pages

USER INTERFACE

- Polyester KEYBOARD with 33 keys, each with programmable functions, i.e.:
 - 4 keys in the display area
 - 9 function keys with signalling LEDs
 - 4 direction keys
 - 1 key for the reset function or alarm display
- Numerical pad
- START and STOP push-buttons with LEDs
- TFT COLOR DISPLAY Touch Screen 432 x 240 pixel, 4.2 inch, 65000 colours
- 64 expandable text pages
- 256 messages, each by 20 bytes
- Storable data structures with indexed access (recipes)
- Texts handled in four languages
- Images by 128x128 pixel for icons and animation
- Graphical touch screen push-buttons

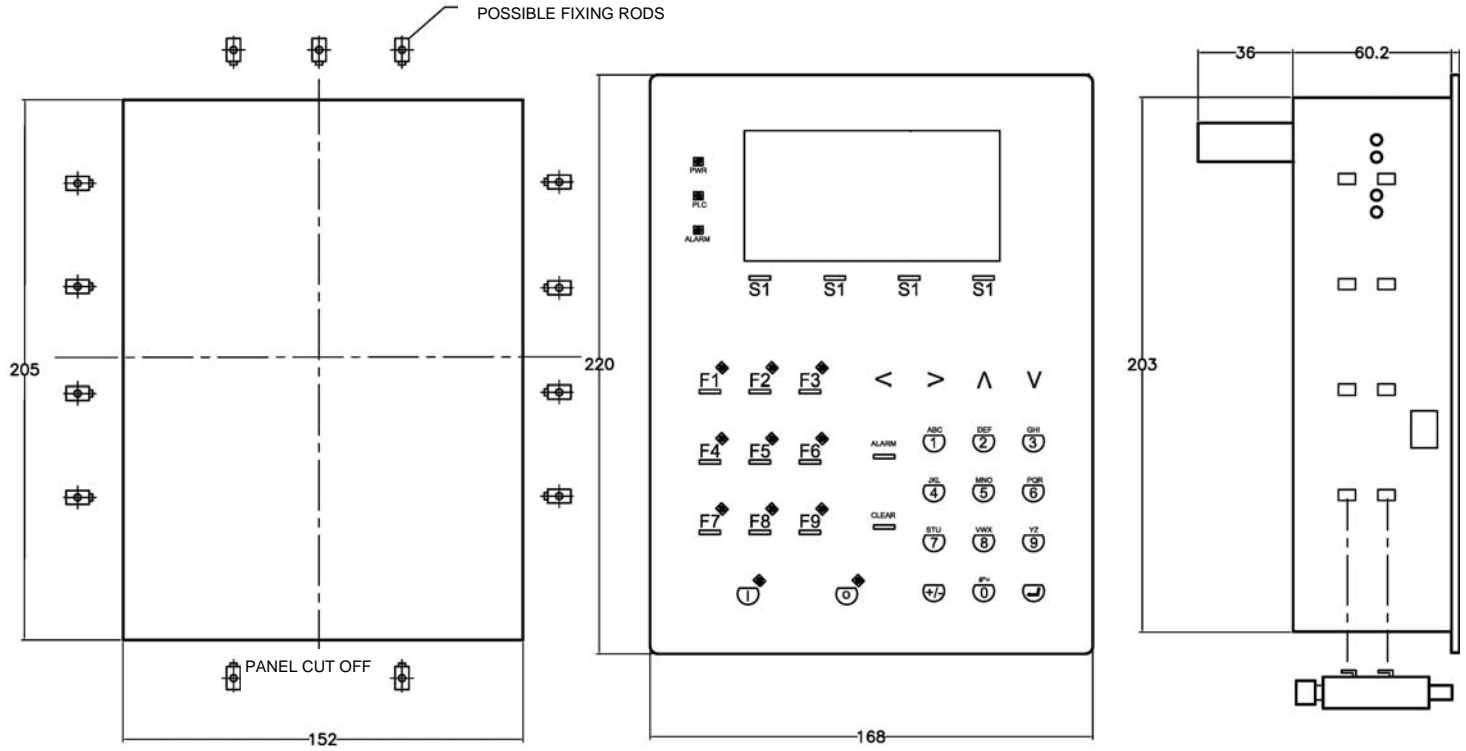
INTERFACE TO THE FIELD

- DIGITAL INPUTS: 16 optoisolated inputs + 2 devoted to the interrupt command
- DIGITAL OUTPUTS: 16 50 mA optoisolated outputs
- INCREMENTAL ENCODERS: 2 5V- Line Driver (RS422) bidirectional count inputs with zero reference reading, 500 KHz frequency
- AXIS COMMAND: 2 12-bit $\pm 10Vdc$ differential analogue outputs. Possibility to command ON/OFF axes
- ANALOGUE INPUTS: 4 0-5 V analogue inputs with 10 bit resolution
- Optional: 10 V analogue outputs
- ALARMS: 1 contact for system watch-dog
- COMMUNICATION: 2 RS232 serial ports or 1 RS232 + 1 RS485 serial port
- EXPANSION MODULES: 16 inputs + 16 outputs 500 mA DIN bar fixing



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DIMENSIONS



GENERAL SPECIFICATIONS

- Front protection degree: IP65
- Supply: 24 Vdc \pm 15% 24 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 5 years life

ORDERING INFORMATION

VEGA+	1 axis	M	128K	R
Type VEGA+	Controlled Axes 1 = axis 2 = axes	Input/Outputs Connections M = 16 + 16 I/O terminal box connections R = 16 + 16 I/O on external relay modules	RAM Capacity 128 KB RAM	Serial Ports R = 2 RS232 serial ports S = 1 RS232 + 1 RS485 serial ports T = 1 RS232 + 1 RS422 serial ports



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