



MULTIFUNCTIONAL CONTROLLER with embedded PLC

Touch screen

- Control over one or two digital axes
- Embedded PLC, Ladder or Instruction List programming
- Touch screen
- Graphical pages handled
- · Interface completely programmable via PC
- Proprietary fieldbus 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 *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
- Flash memory 256 Kbyte
- RAM for user programs, data and pages: 512 Kbyte optional 128 Kbyte NV RAM

USER INTERFACE

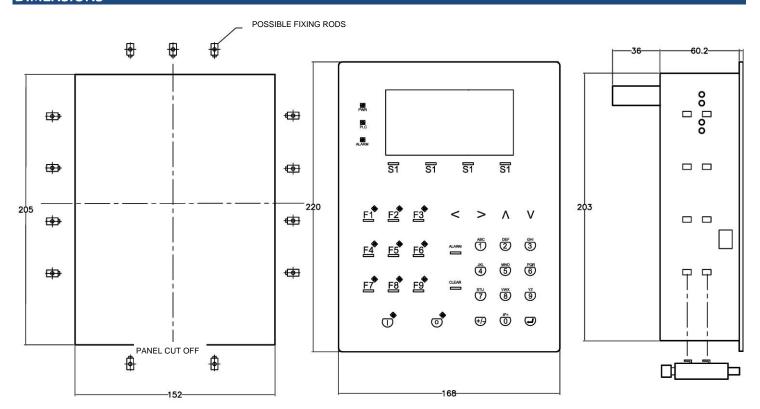
- Polyester 33-key-KEYBOARD, each key having programmable functions, i.e.:
 - 4 keys in the display area
 - 9 function keys with signalling LEDs
 - 4 direction keys
 - 1 key for the reset function or alarm display Numerical pad
 - START and STOP push-buttons with LEDs
- TFT COLOR DISPLAY Touch Screen 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 I max 50 mA
- **INCREMENTAL ENCODERS**: 2 5V- Line Driver (RS422) bidirectional count inputs with zero reference reading, 500 KHz frequency
- AXIS COMMAND: 2 12-bit ±10Vdc differential analogue outputs. Possibility to command ON/OFF axes
- ANALOGUE INTPUTS: 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 – optional 1 USB port
- EXPANSION MODULES: 16 inputs + 16 outputs 500 mA
- DIN bar fixing
- Modbus RTU communication protocol in master or slave mode



DIMENSIONS



GENERAL SPECIFICATIONS

- Front protection degree: IP65
- Supply: 24 Vdc ±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 (Except type with NV RAM)

ORDERING INFORMATION

