

## VI900 – Multi-axis digital readout, touch screen color LCD

**New**

- Compact-designed, modern, functional digital readout.
- 5.7" touch-screen color, back-lit LCD TFT panel which allows every single axis to be displayed.
- Up to 4 axes displayed.
- USB, Touch Probe, CAN Bus and serial RS-232 interfaces.
- Touch-screen pen provided.
- Resolutions up to 0.1  $\mu\text{m}$ .
- Diagnostic of readout and optical scales.
- Reading of coded references (in combination with NCS scale).
- High versatility: universal software for any kind of machine tool, upgrade through serial port.
- Program store for 1000 blocks.
- Visualization of function execution. HELP on-line.
- Easy and immediate use of several dedicated functions.
- Option: flush-mounted version (on a panel).

|                                   |   |
|-----------------------------------|---|
| <b>Panel</b>                      | color, back-lit, 5.7" LCD TFT   |
| <b>Signal input per axis</b>      | 2 square waves displaced 90° $\pm$ 5° and synchronized index  |
| <b>Available resolutions</b>      | 1000 - 500 - 200 - 100 - 50 - 20 - 10<br>5 - 2 - 1 - 0.5 - 0.2 - 0.1 $\mu\text{m}$<br>1° - 0.5° - 0.2° - 0.1° - 0.05° - 0.02°<br>0.01° - 0.005° - 0.002° - 0.001° |
| <b>Digital readout protection</b> | keyboard IP 67 rear panel IP 42   |
| <b>Input axes</b>                 | 2 - 3 - 4   |
| <b>Applicable to</b>              | lathe - milling machine - boring machine - etc.   |
| <b>Power supply</b>               | 230 Vac $\pm$ 10% - 50/60 Hz 60 mA<br>110 Vac $\pm$ 10% - 60 Hz 120 mA<br>24 Vac $\pm$ 10% - 50/60 Hz 500 mA  |
| <b>Version</b>                    | standard or flush-mounted   |



4-axis version

## MAIN FUNCTIONS

- |  |   |
|--|---|
| • LANGUAGE SELECTION                         | • LINEAR CORRECTION                         |
| • SELF-TEST                                  | • NON-LINEAR CORRECTION                     |
| • DEVICE DIAGNOSTIC                          | • SCALE FACTOR                              |
| • INVERSION OF COUNTING DIRECTION            | • CIRCUMFERENCE CENTER                      |
| • ABS/INC COUNTING                           | • MIDPOINT CALCULATION                      |
| • MM/INCH CONVERSION MODE                    | • MIRROR IMAGE                              |
| • RADIUS/DIAMETER CONVERSION                 | • ROUND FLANGE                              |
| • VARIABLE RESOLUTION                        | • SPECIAL ROUND FLANGE                      |
| • SCALE ZERO REF.                            | • PROGRAMMING THE MEMORY BLOCKS             |
| • MEMORY CLEARING                            | • CONE INCLINATION CALCULATION              |
| • RESETTING/PRESETTING OF A DIMENSION        | • AUTOMATIC CONE INCLINATION CALCULATION    |
| • ANGULAR READING                            | • THREAD CALCULATION                        |
| • SEXAGESIMAL DEGREES READING                | • WEIGHT OF MATERIALS CALCULATION           |
| • CALCULATOR                                 | • TIP SPEED CALCULATION                     |
| • AXIS COUPLING                              | • ANGULAR SPEED CALCULATION                 |
| • RECALLING OF SPECIAL FUNCTIONS             | • SCALE VALUE SET                           |
| • 100 TOOL OFFSETS                           | • DISPLAYING AXIS SPEED                     |
| • 100 ORIGINS OF THE AXIS                    | • DISPLAYING RECALLED TOOL                  |
| • SETTING THE TYPE OF SPINDLE ROTATION SPEED | • SERIAL OUTPUT RS-232                      |
| • CONSTANT PITCH                             | • SETTING PRINTING LINE SPACINGS            |
| • INCLINED CONSTANT PITCH                    | • ENABLING THE AUTOMATIC QUOTA TRANSMISSION |

