GIVI MISURE s.r.l.
Via Assunta 57 - 20054 NOVA MILANESE (MI) ITALY
TEL.+39 0362.36.61.26 FAX +39 0362.36.68.76
www.givimisure.it sales@givimisure.it

Code	Project	Release	Title
ST02	***A39***	***A***	***TECHNICAL DATASHEET***

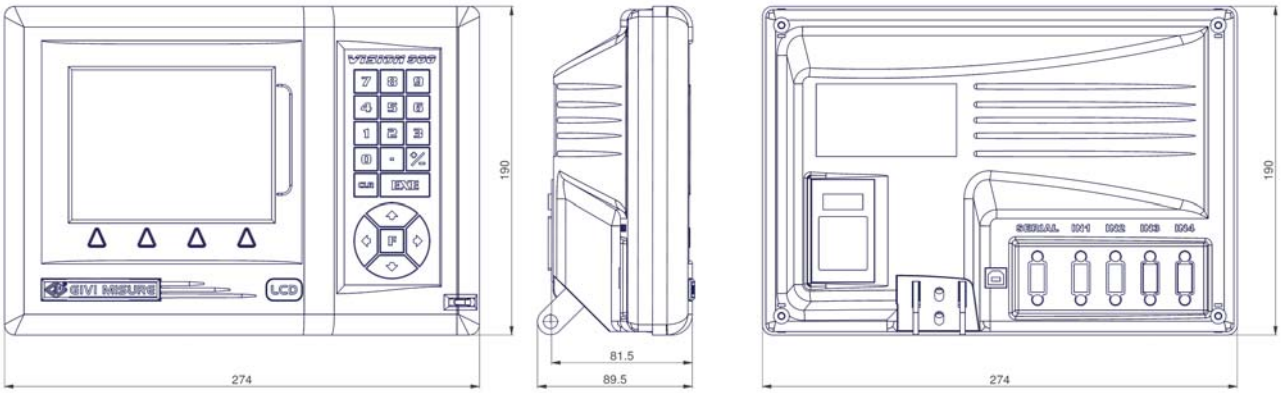
DIGITAL READOUT VI900

GENERAL FEATURES

- Compact-designed digital readout.
- 5.7'' touch-screen color, back-lit LCD TFT panel which allows up to 4 axes to be displayed.
- USB, Touch Probe, CAN Bus and serial RS-232 interfaces.
- Touch-pen provided.
- Resolutions up to 0.1 µm.
- Graphic visualization of function execution.
- On-line HELP.
- Diagnostic of readout and optical scales.
- Reading of coded references (in combination with NCS scale).
- Universal software for any kind of machine tool, upgradeable through serial port.
- Program store for 1000 blocks.
- Option: flush-mounted version (on a panel).

MECHANICAL AND ELECTRICAL FEATURES

Available resolutions	1 mm - 500 - 200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0.5 - 0.2 - 0.1 µm 1° - 0.5° - 0.2° - 0.1° - 0.05° - 0.02° - 0.01° - 0.005° - 0.002° - 0.001°
Power supply	230 Vac ± 10% - 50/60 Hz / 110 Vac ± 10% - 60 Hz / 24 Vac ± 10% - 50/60 Hz
Current consumption	60 mA_{MAX} (230 Vac) / 120 mA_{MAX} (110 Vac) / 500 mA_{MAX} (24 Vac)
Axis display	5.7'' color, back-lit LCD TFT
Signal input per axis	2 square waves, phase displacement 90° ± 5° + synchronized index TTL 05 Vdc
Maximum input frequency	300 kHz
Operating temperature	0° ÷ 50°C
Storage temperature	-20° ÷ 70°C
Relative humidity	95% (not condensed)
Vibration resistance (EN 60068-2-6)	25 m/s^2 [55 ÷ 2000 Hz]
Protection class (EN 60529)	keyboard IP 67 rear panel IP 42
Weight	≈ 1.12 kg



ORDERING CODE

MODEL	DISPLAYED AXES	INPUT AXES	MACHINE TYPE	POWER SUPPLY	VERSION	RESOLUTION
VI9	**3**	**3**	**TO**	**230V**	**0**	**01**
VI9	**2** = 2 axes **3** = 3 axes **4** = 4 axes	**2** = 2 axes **3** = 3 axes **4** = 4 axes	**IN** = ANY TYPE **TO** = LATHE **FR** = MILLING MACHINE **FV** = VERT. MILLING MACHINE **FT** = TRANSV. MILLING MACHINE **AL** = BORING MACHINE	**230V** = 230 Vac **110V** = 110 Vac **24V** = 24 Vac	**0** = standard **1** = flush-mounted	**10** = 0.1 mm **100** = 0.01 mm **5** = 0.005 mm **1** = 0.001 mm **0.1** = 0.0001 mm ……

Example ☞ **COUNTER VI933TO 230V 0 0.1**

GIVI MISURE s.r.l.
Via Assunta 57 - 20054 NOVA MILANESE (MI) ITALY
TEL.+39 0362.36.61.26 FAX +39 0362.36.68.76
www.givimisure.it sales@givimisure.it

Code	Project	Release	Title
ST02	***A39***	***A***	***TECHNICAL DATASHEET***

LIST OF FUNCTIONS

***F 0** EXE*	DELETING STORED DATA
***F 9** EXE*	SETTING PRINTING LINE SPACINGS
***F 26** EXE*	CONSTANT STEP
***F 28** EXE*	AXIS COUPLING
***F 30** EXE*	LINEAR CORRECTION
***F 31** EXE*	NON-LINEAR CORRECTION
***F 32** EXE*	SCALE FACTOR
***F 34** EXE*	RADIUS/DIAMETER CONVERSION
***F 36** EXE*	VARIABLE RESOLUTION
***F 37** EXE*	SEXAGESIMAL DEGREE READNG
***F 38** EXE*	ANGULAR READING MODE
***F 44** EXE*	CALCULATING THE TAPER
***F 46** EXE*	AUTOMATIC CALCULATING THE TAPER
***F 48** EXE*	CALCULATING THREADS
***F 50** EXE*	CALCULATING THE WEIGHT OF MATERIALS
***F 52** EXE*	CALCULATING THE TIP SPEED
***F 54** EXE*	CALCULATING THE ANGULAR SPEED
***F 55** EXE*	ENABLING THE AUTOMATIC QUOTA TRANSMISSION
***F 64** EXE*	ROUND FLANGE
***F 66** EXE*	SPECIAL ROUND FLANGE
***F 68** EXE*	INCLINED CONSTANT PITCH
***F 69** EXE*	ZERO REF. APPROACHING ALERT
***F 70** EXE*	PROGRAMMING THE MEMORY BLOCKS
***F 72** EXE*	CIRCUMFERENCE CENTER
***F 74** EXE*	MIRROR IMAGE
***F 78** EXE*	SCALE VALUE SET
***F 80** EXE*	AXIS SPEED DISPLAYING
***F 82** EXE*	BUZZER ON/OFF
***F 89** EXE*	DEVICE DIAGNOSTIC
F nn Fn	RECALLING OF SPECIAL FUNCTIONS (F1-F8)
ORG	100 ORIGINS OF THE AXES
TOOLS	100 TOOL OFFSETS
HELP	ON-LINE HELP
***F 98718** EXE*	SETTING THE TYPE OF SPINDLE ROTATION SPEED
***F 98762** EXE*	LANGUAGE SELECTION
CALC	CALCULATOR
	INVERSION OF COUNTING DIRECTION
	SCALE ZERO REFERENCE (REF)
	SELF-TESTING
	ABSOLUTE/INCREMENTAL COUNTING
	RESETTING/PRE-SETTING A VALUE
	MM/INCH CONVERSION
	MIDPOINT CALCULATION

WARNING!!

WHAT TO AVOID

1. All mechanical reworks (cutting, drilling, face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Exposure to external magnetic fields.