GIVI MISURE

MEGATRON AG
FERROXCUBE DISTRIBUTOR FOR MAGNETIC COMPONENTS

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Code	Project	Release	Title
ST04	*A32*	*B*	*TECHNICAL DATASHEET*

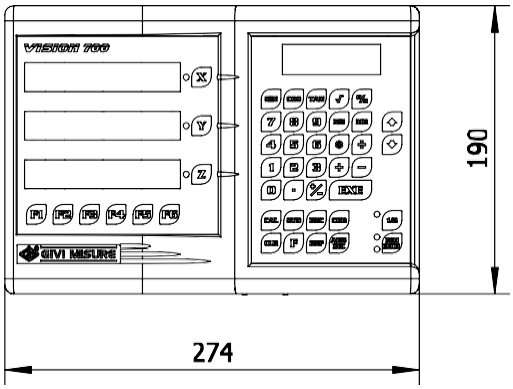
DIGITAL READOUT VI700

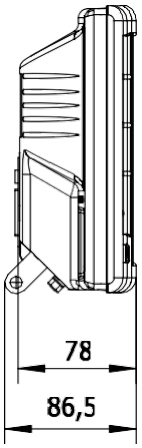
GENERAL FEATURES

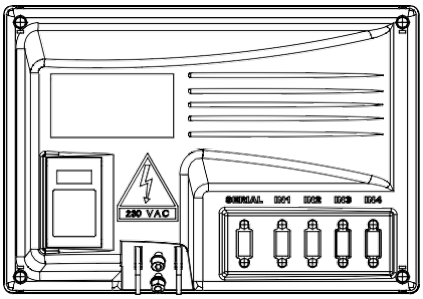
- Compact-designed digital readout.
- Diagnostic of readout and optical scales (internal cleaning and/or internal defects).
- Reading of coded references (in combination with NCS scale).
- Universal software for any kind of machine-tool.
- Software upgrade through serial port.
- Program store for 1000 blocks.
- Optional: flush-mounted version (on a panel).

MECHANICAL AND ELECTRICAL FEATURES

Available resolutions	200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0.5 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	50 mA_{MAX} (230 Vac) / 100 mA_{MAX} (110 Vac) / 450 mA_{MAX} (24 Vac)
Axis display	7 high-efficiency digits h = 17 mm
Signal input per axis	2 square waves, phase displacement 90° ± 5° + synchronized index 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	≈1kg







ORDERING CODE

MODEL	DISPLAYED AXES	INPUT AXES	MACHINE TYPE	LCD	POWER SUPPLY	VERSION	RESOLUTION
VI7	3	3	TO	L	230V	0	10
VI7	**2** = 2 axes **3** = 3 axes	**2 =** 2 axes **3 =** 3 axes **4 =** 4 axes	**IN** = ANY TYPE **TO** = LATHE **FR** = MILLER	**L** = with LCD **N** = without LCD	**230V =** 230 Vac **110V =** 110 Vac **24V =** 24 Vac	**0** = standard red **1** = flush-mounted red **4** = standard green **5** = flush-mounted green	**10** = 0,1 mm **100 =** 0,01 mm **5** = 0,005 mm **1** = 0,001 mm ……

Example 👉 **COUNTER VI733TO L 230V 0 10**

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LIST OF FUNCTIONS

F 0 *EXE*	DELETING STORED DATA	
F 9 *EXE*	SETTING PRINTING LINE SPACINGS	
F 26 *EXE*	CONSTANT PITCH	
F 28 *EXE*	AXIS COUPLING	
F 30 *EXE*	LINEAR CORRECTION	
F 31 *EXE*	NON-LINEAR CORRECTION (10 POINTS)	
F 32 *EXE*	SCALE FACTOR	
F 34 *EXE*	RADIUS/DIAMETER CONVERSION	
F 36 *EXE*	VARIABLE RESOLUTION	
F 37 *EXE*	SEXAGESIMAL DEGREES READING	
F 38 *EXE*	CHOICE OF ANGULAR READING MODE	
F 44 *EXE*	TAPER CALCULATION	*LCD*
F 46 *EXE*	AUTOMATIC TAPER CALCULATION	*LCD*
F 48 *EXE*	THREAD CALCULATION	*LCD*
F 50 *EXE*	WEIGHT OF MATERIALS CALCULATION	*LCD*
F 52 *EXE*	TIP SPEED CALCULATION	*LCD*
F 54 *EXE*	ANGULAR SPEED CALCULATION	*LCD*
F 55 *EXE*	ENABLING THE AUTOMATIC QUOTA TRANSMISSION	
F 64 *EXE*	CIRCULAR FLANGE	
F 66 *EXE*	SPECIAL CIRCULAR FLANGE	
F 68 *EXE*	INCLINED CONSTANT PITCH	
F 70 *EXE*	PROGRAMMING THE MEMORY BLOCKS	
F 72 *EXE*	CENTER OF A CIRCUMFERENCE	
F 74 *EXE*	MIRROR IMAGE	
F 78 *EXE*	SCALE VALUE SET	*LCD*
F 80 *EXE*	DISPLAYING AXIS SPEED	*LCD*
F 81 *EXE*	DISPLAYING RECALLED TOOL	*LCD*
F 89 *EXE*	DEVICE DIAGNOSTIC	
F Z	DISPLAYING W AXIS	
STO	100 TOOL OFFSETS	
F REF	100 ORIGINS OF THE AXES	
F nn Fn	RECALLING OF SPECIAL FUNCTIONS (F1-F6)	
F 98718 *EXE*	SETTING THE TYPE OF SPINDLE ROTATION SPEED	
F 98762 *EXE*	LANGUAGE SELECTION	*LCD*
CAL	CALCULATOR	
	INVERSION OF COUNTING DIRECTION	
	SCALE ZERO REFERENCE (rEF)	
	SELF-TEST	
	ABSOLUTE/INCREMENTAL COUNTING	
	RESETTING/PRE-SETTING A VALUE	
	MM/INCH CONVERSION	
	MIDPOINT CALCULATION	
	SERIAL OUTPUT RS-232	

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.