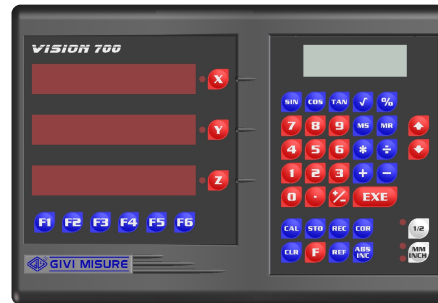


Codice <b>ST04</b>	Progetto <b>A32</b>	Revisione <b>A</b>	Title <b>PRODUCT INFORMATION</b>
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**DESCRIPTION: DIGITAL READOUT VI700**

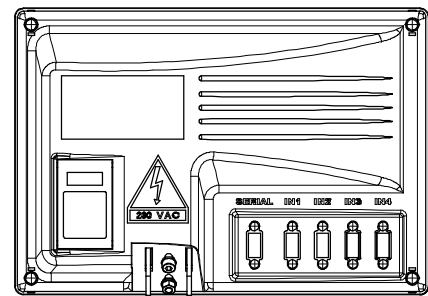
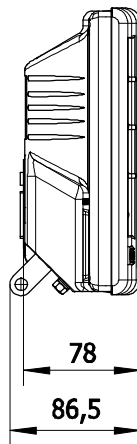
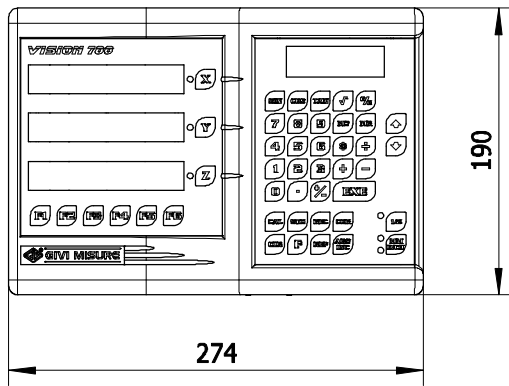
**GENERAL FEATURES**

- 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



**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 ± 20% - 50/60 Hz / 110 Vac ± 20% - 60 Hz
Axis display	7 high efficiency digits H= 17 mm
Signals input	2 square waves, phase displacement 90° ± 5° + synchronized index
Maximum input frequency	250KHz
Operating temperature	0 ÷ 50°C
Storage temperature	-20° ÷ 70°C
Humidity	95% not condensed
Vibration resistance	[55Hz÷2KHz] at 25m/s <sup>2</sup>
Environmental sealing	IP 40 according to DIN 40050
Weight	≈1Kg



**ORDERING CODE**

MODEL	DISPLAYED AXIS	INPUT AXIS	TYPE OF MACHINE	LCD	POWER SUPPLY	USAGE	RESOLUTION
<b>VI7</b>	<b>2</b>	<b>2</b>	<b>IN</b>	<b>L</b>	<b>230</b>	<b>0</b>	<b>100</b>

**VI7**

**2** = 2 axis  
**3** = 3 axis

**2** = 2 axis  
**3** = 3 axis  
**4** = 4 axis

**IN** = ANY TYPE  
**TO** = LATHE  
**FR** = MILLER

**L** = with LCD  
**N** = without LCD

**230Vac** 50Hz  
**110Vac** 60Hz

**0** = Std. red  
**1** = Flush-mounted red  
**4** = Std. green  
**5** = Flush-mounted green

**10** = 0,1 mm  
**100** = 0,01 mm  
**5** = 0,005 mm  
**1** = 0,001 mm  
.....

Codice	Progetto	Revisione	Title
<b>ST04</b>	<b>A32</b>	<b>A</b>	<b>PRODUCT INFORMATION</b>

### LIST OF FUNCTIONS

<b>F 0 EXE</b>	DELETING STORED DATA	
<b>F 9 EXE</b>	SETTING PRINTING LINE SPACINGS	
<b>F 26 EXE</b>	CONSTANT STEP	
<b>F 28 EXE</b>	SUMMING FOR TWO AXIS	
<b>F 30 EXE</b>	LINEAR CORRECTION	
<b>F 31 EXE</b>	NOT LINEAR CORRECTION (10 POINTS)	
<b>F 32 EXE</b>	SCALE FACTOR	
<b>F 34 EXE</b>	RADIUS/DIAMETER CONVERSION	
<b>F 36 EXE</b>	VARIABLE RESOLUTION	
<b>F 37 EXE</b>	ANGULAR READING IN DEGREES, MINUTES AND	
<b>F 38 EXE</b>	CHOICE OF ANGULAR READING MODE	
<b>F 44 EXE</b>	CALCULATING THE TAPER	LCD
<b>F 46 EXE</b>	AUTOMATIC CALCULATING THE TAPER	LCD
<b>F 48 EXE</b>	CALCULATING THREADS	LCD
<b>F 50 EXE</b>	CALCULATING THE WEIGHT OF MATERIALS	LCD
<b>F 52 EXE</b>	CALCULATING THE TIP SPEED	LCD
<b>F 54 EXE</b>	CALCULATING THE ANGULAR SPEED	LCD
<b>F 55 EXE</b>	ENABLING THE AUTOMATIC QUOTA TRANSMISSION	LCD
<b>F 64 EXE</b>	CIRCULAR FLANGE	
<b>F 66 EXE</b>	SPECIAL CIRCULAR FLANGE	
<b>F 68 EXE</b>	INCLINED CONSTANT PITCH	
<b>F 70 EXE</b>	PROGRAMMING THE MEMORY BLOCKS	
<b>F 72 EXE</b>	CENTER OF A CIRCUMFERENCE	
<b>F 74 EXE</b>	SPECULAR IMAGE	
<b>F 78 EXE</b>	SCALE VALUE SET	LCD
<b>F 80 EXE</b>	AXIS SPEED DISPLAYING	LCD
<b>F 81 EXE</b>	DISPLAYING RECALLED TOOL	LCD
<b>F 89 EXE</b>	DEVICE DIAGNOSTIC	
<b>F Z</b>	DISPLAYING W AXIS	
<b>STO...</b>	100 TOOL OFFSETS	
<b>F REF</b>	100 ORIGINS OF THE AXIS	
<b>F nn Fn</b>	RECALLING OF SPECIAL FUNCTION (F1-F6)	
<b>F 98718 EXE</b>	IMPOSTAZIONE TIPO VELOCITA' ROTAZ. MANDRINO	
<b>F 98762 EXE</b>	LANGUAGE SELECTION	LCD
<b>CAL</b>	CALCULATOR	
	REVERSAL OF COUNTING DIRECTION	
	RULER ZERO REFERENCE (rEF )	
	SELF-TESTING	
	ABSOLUTE/INCREMENTAL COUNTING	
	RESETTING/PRE-SETTING A VALUE	
	MM/INCH CONVERSION	
	MIDDLE POINT	
	SERIAL OUTPUT RS-232	

### WARNING!!

#### WHAT TO AVOID

1. All mechanic reworks /Cut, Drilling, Face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Exposed to external magnetic fields

