DIGITAL READOUT VISION 1000

code **ST02** | project **A80** | release **A**

GENERAL FEATURES

- Completely touch screen digital readout, with a compact, modern and functional design, for absolute and incremental systems.
- Intuitive graphic interface to support the operator in using the available functions.
- Universal software for any kind of machine tool.

MECHANICAL AND ELECTRICAL CHARACTERISTICS

Available resolutions	1000 - 500 - 200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0.5 - 0.2 - 0.1 - 0.05 - 0.01 µm 1° - 0.5° - 0.2° - 0.1° - 0.05° - 0.02° - 0.01°		
Display	TFT 10.1"		
Incremental encoder input signals	2 square waves with phase displacement of 90° ± 5° + synchronized index 5 Vdc Total 4 encoder current consumption: 1 A_{MAX}		
Absolute (SSI - BiSS unidirectional) encoder input signals	RS-422 – Clock, $\overline{\text{Clock}}$, Data, $\overline{\text{Data}}$		
Maximum input frequency	300 kHz		
Power supply	230 Vac ± 10% 50/60 Hz	110 Vac ± 10% 60 Hz	24 Vac ± 10% 50/60 Hz
Current consumption	100 mA_{MAX} (230 V)	220 mA_{MAX} (110 V)	870 mA_{MAX} (24 V)
Connectors	D-SUB 9p F (axes)	D-SUB 9p M (RS-232, CAN bus)	
Memory	permanent for configuration and special functions		
Protection class (EN 60529)	IP 40	IP 54 with plastic cover provided	
Operating temperature	0 °C ÷ 45 °C		
Storage temperature	-20 °C ÷ 70 °C		
Weight	1.5 Kg		
Version	standard or flush-mounted		
Options	CAN interface for RB900		

SSI - BiSS PARAMETERS

Clock frequency	500 kHz (SSI) 5 MHz (BiSS)
Number of position bits	8-32 bit
Output code	Binary, Gray
Optional bits	Parity bit, Error bit

TECHNICAL CHARACTERISTICS

- 10.1" touch-screen, TFT panel which allows the displaying of up to 4 axes.
- Easy and immediate use of several dedicated functions.
- Universal software for any kind of machine tool.
- Graphic visualization of function execution.
- Absolute (SSI - BiSS unidirectional protocol) or incremental encoder input signals.
- Reading of coded reference indexes.
- Resolutions up to 0.01 µm.
- Option: flush-mounted version (on a panel).
- CAN interface and serial output RS-232.
- Possibility of connection to a digital (up to 8 relay outputs) or analog (constant surface speed) remote board.

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04355540156 Cap. Soc. € 51.480,00 I.V.

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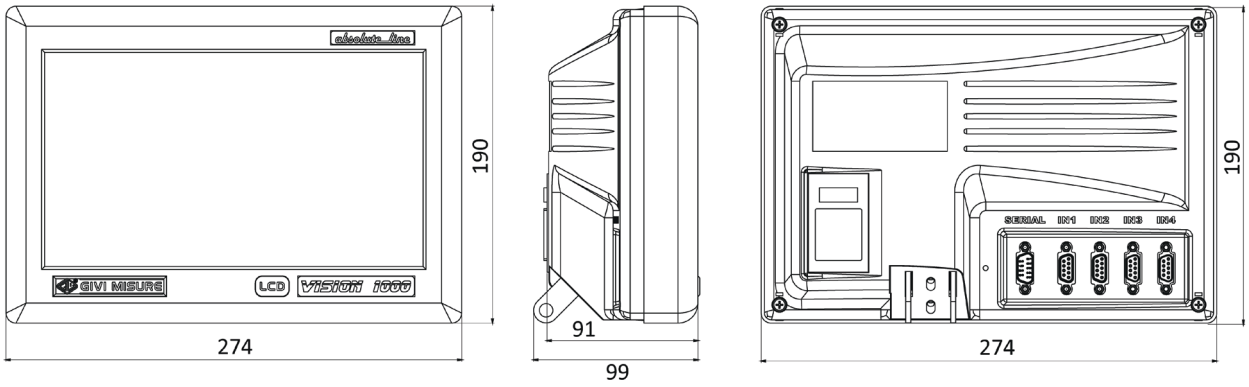
DIMENSIONS



AVAILABLE FUNCTIONS

Absolute position display	Round flange	Tools
Midpoint calculation	Radius/diameter conversion	Origins
Absolute or incremental counting	Scale factor	Inversion of counting direction
Scale zero reference	Linear correction	Variable resolution
Axis reset	Taper calculation	Disable REF
Position preset	Material weight calculation	Disable axes
mm/inch conversion	Speed calculation	Language selection
Constant step	Thread calculation	Instrument info
Axis coupling	Axes speed	

ORDERING CODE

Example DIGITAL READOUT **VI1033 TO 230V 0 1 2**

Model	Displayed axes	Input axes	Machine	Power supply	Version	Resolution	Options
VI10	2 = 2 axes 3 = 3 axes 4 = 4 axes	2 = 2 axes 3 = 3 axes 4 = 4 axes	IN = generic TO = lathe FR = milling FV = vertical milling FT = transv. milling AL = boring	230V = 230 Vac 110V = 110 Vac 24V = 24 Vac	0 = standard 1 = flush-mounted	1K = 1000 µm 10 = 100 µm 100 = 10 µm 1 = 1 µm 0.1 = 0.1 µm	2 = SSI - BiSS inputs 3 = SSI inputs + CAN interface (only for use with RB900)

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