



Description ____

The ever growing need to optimize the connection of sensors to the acquisition units, generally located at a distance from the sensor application point, and, in any case, to simplify the transmission of the detected data, has pushed us to design and introduce in our production range a converter that allows to use and manage a vibrating wire sensor as a simple digital sensor with RS-485 output.

Our experience in the design and production of vibrating wire instruments and related measuring units allowed us to create a simple, economical and highly reliable product.

Applications ____

The VW-MDB converter is used on all our vibrating wire sensors and with almost all those present on the national and international market.



Features and benefits ____

The VW-MDB converter allows the measurement of the vibrating wire sensors to be performed by providing the data in digital form as an Output;

- Transmission by means of a simple quadripolar cable.
- Possibility of loop connection of several vibrating wire sensors, using a single cable for "n" sensors.
- The high resolution of the converter allows the maintenance of the measurement characteristics with the traditional direct measurement method.
- · Easy installation and management of modules and outgoing data
- High resolution and precision
- Safe and reliable electronics, designed to last over time even in hostile environments
- Power supply 8 ÷ 30 Vdc
- Possibility to perform measurements with a frequency up to 0.5 sec
- Very low absorption
- In IP66 version (on request in IP68 version)



Technical Specifications

Mode	Power Supply				
	9Vdc	12Vdc	16Vdc	24Vdc	30Vdc
Stand-by	4,0 ma	2,6 ma	1,96 ma	1,35 ma	1,10 ma

N.B.: current absorbed in the measurement phase (80 mA_max for a time <100 msec.)

Resolution:	(32 Bit) 0.005 Hz	
Accuracy:	0.01 Hz	
Update rate	0.5 sec (simple rate: 2 Hz)	
Reading mode and frequency range	CV-OG1: 347 ÷ 1265 Hz CV-OG: 347 ÷1265 Hz CV-mode A: 450 ÷ 6000 Hz CV-mode B: 1200 ÷ 3500 Hz CV-mode F: 2500 ÷ 6000 Hz	
Sensor Type	Piezometers, Extensometers, pressure cells, strain gauge	
Temperature sensor type	NTC 3K	
Operating temperature of conversion board	- 40 °C to + 80°C	
Dimensions of conversion board	50mm x 60mm	
Maximum number of conversion boards connectable in loop	32	
Maximum number of sensors connectable on each VW-MDB	2 (n° 1 C.V + n° 1 NTC)	

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conversion board

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