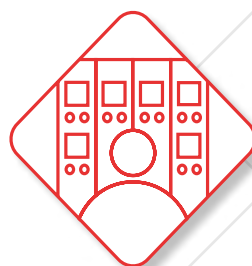




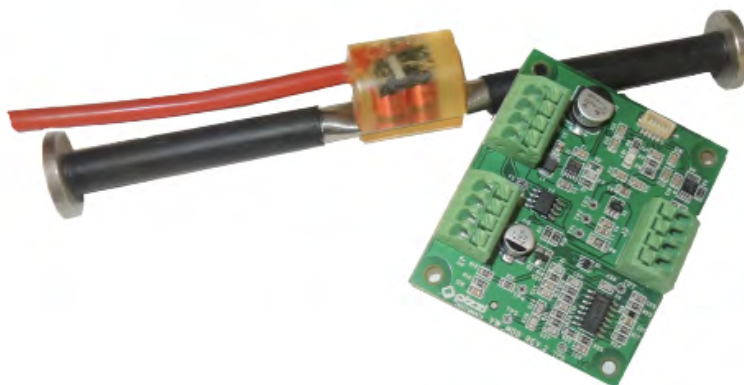
Vibrating Wire - RS485 (Modbus)



www.pizzi-instruments.it

Instruments and Systems for Geotechnical and Structural

Vibrating Wire - RS485 (Modbus)



Descrizione

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

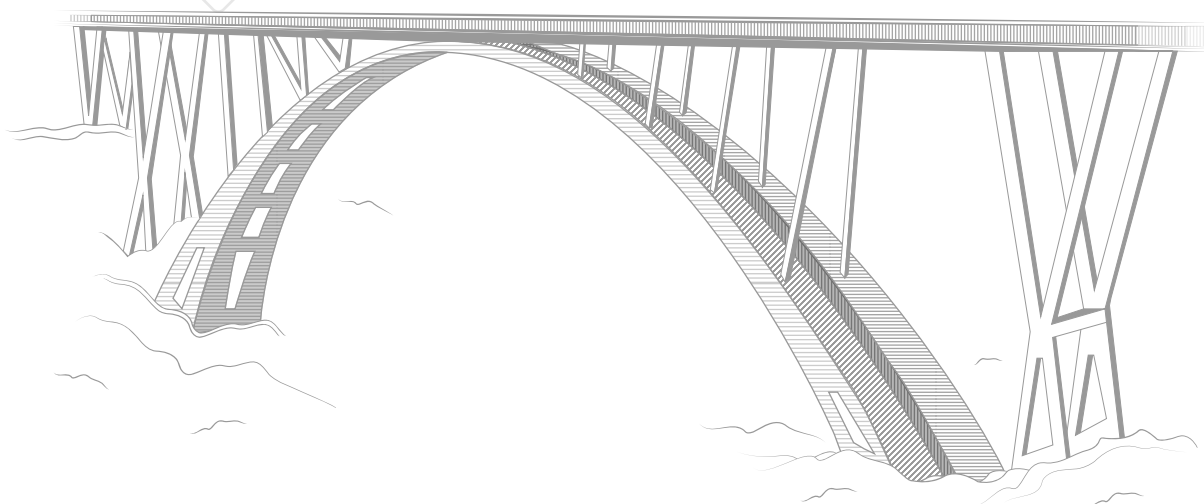
N.B.: current absorbed in the measurement phase (80 mA_{max} for a time <100 msec.)

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 conversion board	2 (n° 1 C.V + n° 1 NTC)

The Company

For more than 40 years we have been designing and producing precision instruments for monitoring large structures sold all over the world.

Accuracy in design, efficiency in construction, reliability in management, these are the prerogatives that every big project must have and that structural monitoring systems must guarantee



Technical assistance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

All data present in the sheets could change without notice.

Please check the release carefully and for more details contact Pizzi Instruments.

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