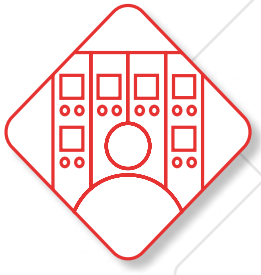
pizzi instruments

DEC5
Portable
Readout Unit



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Instruments and Systems for Geotechnical and Structural

DEC5
Portable
Readout Unit

Description

DEC5 is a portable readout unit for vibrating wire instruments and thermistors, equipped with internal rechargeable battery, able to read almost all vibrating wire instruments on the international market.

The DEC5 is a very simple and intuitive readout unit to use, with immediate return of measured data on an alphanumeric display located on the front panel.

Great reliability, universality, ease of use and long autonomy, make DEC5 perfect for those who have to take manual measurements without the need to store data and **without the need to programme automatic measurement cycles.**

As an alternative to DEC 5, for larger storage requirements and automatic programming of measurement cycles, we offer our DEC3000 devices (see separate leaflet).

Applications

The DEC5 readout unit comes as a portable reading device for vibrating wire instruments and thermistors. The latest version has the ability to capture almost all vibrating wire instruments present on the national and international market.

Its great reliability, solidity, sturdy protective case and reasonable price, make the DEC5 an excellent device for those performing occasional test measurements during the various stages of processing or for working in particularly difficult conditions on sites such as:

- **Bridges**
- **Dams**
- **Tunnels**
- **Piles**

- **Railway lines**
- **Monuments**
- **Churches**
- **Historical and cultural buildings**
- **Various**

Features and benefits

- **Designed and manufactured in our laboratories of Florence**
- **Small size**
- **Low cost**
- **Easy and intuitive operation**
- **Low consumption**
- **Long battery life**
- **High reliability and repeatability**
- **Reads almost all vibrating wire sensors currently present on the market**
- **High strength**
- **Waterproof**
- **Viewing of acquired data via visual display**
- **Easy sensor connection**

Measurement principles

The DEC5 internal electronics come from years of experience in the field of monitoring and more specifically the design and construction of monitoring instruments.

The control unit provides the excitement of the sensor's wire, measures the frequency of vibration and shows it on the alphanumeric display.

This product is definitely one of the most requested by operators who do not require particular functions from a control unit, but require high reliability, accuracy and speed in instrument readings, simplicity and the ability to read almost all vibrating wire instruments currently on the market.

General features

Absorption	5 VA max
Battery autonomy	12h in acquisition phase / 24h in stand-by
Display	4 rows x 20 digits – LED backlit
Keyboard	With 5 keys protected with polycarbonate film with a thickness of 0,17mm
Internal clock	Max error 1 min / month

Digitalizer

A/D Converter	24 bit

Type of reading

Vibrating wire (350 – 6000 Hz)
NTC
Test function
Measurement of battery

Chassis

Type	Black resin
Dimensions	162x114x85,6 mm
Index of protection	Case IP66, Datalogger IP40 (EN60529)
Weight	2,65 kg
Operating temperature	- 40 …… 85 °C
Installation	Portable

Power supply

Voltage	12V
Absorption	60 mA max ; 0,1 mA Stand by; 5VA max
Connector	On board
Internal battery	2 Ah

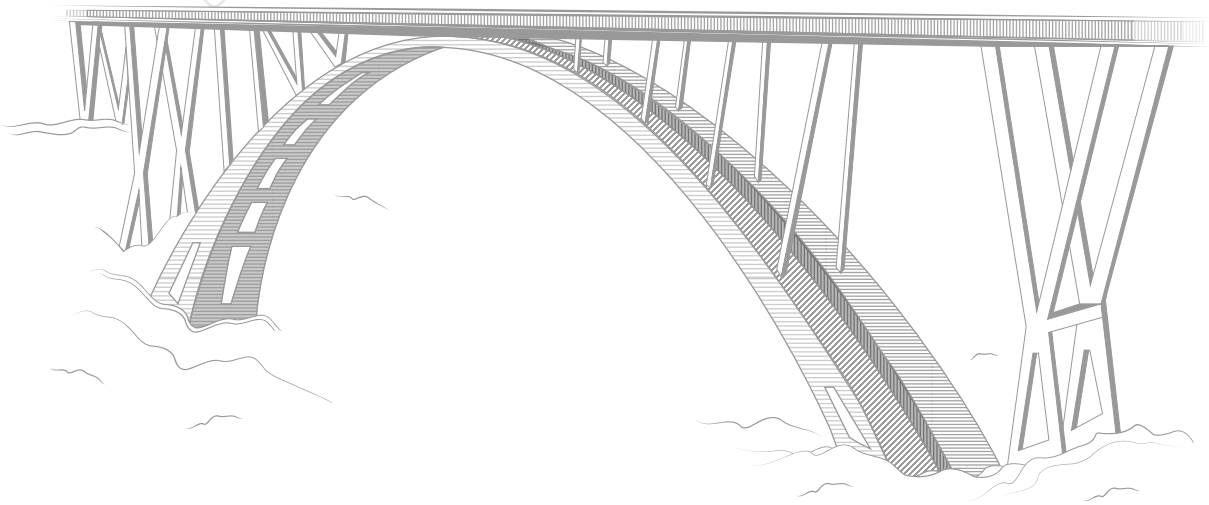
Environmental operating conditions

Temperature	-40 …… +85 °C
Humidity	0 …… 95% rel. max
Altitude	0 …… 8000 mt

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 assitance

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.

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