

Vibracord DX Digital Vibration Meter



The family of vibration measuring instruments Vibracord DX is used in construction work, mining, blasting, demolition or other works where vibrations cannot be completely avoided. To exclude any damage or risk, measurement and analysis of these vibrations are required.

Depending on the chosen transducers The equipment fulfills with the requirements of the different regulations :

1-315 Hz (DIN 45669)

2-250 Hz

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Technical data

Number of channels	4 / 7
Sample rate	2048 SPS
Analog to Digital Converter	16 bits
Frequency range (depending on the choosing configuration)	1-315 Hz 2-250 Hz
Record time	1, 2, 4, 8, 16, 32 s
Trigger mode	Automatic (see note 1) Manual External
Ports for data transfer	Ethernet (LAN) USB (External disk) GSM/GPRS
Record and data transfer modes	Internal disk Printer SMS messages WEB server FTP server e-mail
Data storage memory	200 MB (see note 2)
External power supply	12 V
Intenal power supply	Li-Ion rechargeable battery
Autonomy	20 hours of continuous use
Visualization	Graphic LCD screen 128x64 pixels
Keyboard	8 keys
Dimensions	180x220x70 mm
Weight (without accesories)	1,9 kg
Operating temperature	-10 °C to 50 °C
Storage temperature	-20 °C to 60 °C
Operating and storing humidity	Without condensation

Facts

- Friendly and easy to use with menu controls.
- Designed to work under rough conditions (IP-65)
- Automatic checking of the geophones before recording.
- FFT Analysis performed in the equipment.
- Several reports:
 - Main report
 - Detailed report
 - Acceleration report
 - Displacement report
 - RMS / Kbf report
 - Regression analysis (charge/distance table)
 - Prevention criteria on the report and equipment.
- Remote access to the equipment (WEB and FTP servers).
- Get the recording data in your mobile phone or e-mail (**no special software required**).
- Equipment allows diferent types of transducers (Geophones, microphones, accelerometers, etc).

Note 1: In automatic trigger mode each channel could be independently configured and activated.

Note 2: For 1 second and 4 channel records the memory can store up to 6000 records. The amount of memory could be incremented upon request.

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Technical data

Transducers technical data

2-250 Hz version	
Seismic channels measurement range	± 200 mm/s
Resolution	0,01 mm/s
Minimum measurement	0,05 mm/s
Correction response	IIR digital filter
Transducer type	Geophone fn=8 Hz
1-315 Hz version	
Seismic channels measurement range	± 120 mm/s
Resolution	0,01 mm/s
Minimum measurement	0,05 mm/s
Correction response	IIR digital filter
Transducer type	Geophone fn=4,5 Hz
Sound channel	
Measurement range	± 502 Pa (148 dB)
Resolution	0,1 Pa
Minimum measurement	2 Pa (100 dB)
Frequency response	2-250 Hz 1-315 Hz
Transducer type	Pressure sensor

ACCESORIES:

- Operating instructions manual.
- USB disk with PC software. This disk could be used for data transfer
- Power supply
- Tripod for microphone
- Carrying case

OPTIONAL:

PRINTER: Get in real time a printed report of the record.

LAN MODULE: Connect to a Local Area Network or a computer to have remote access to the WEB and FTP server.

GSM/GPRS MODEM: Connect to the equipment everywhere in the world, from your mobile phone or computer **without the need of special software.**

EXTERNAL TRIGGER: Synchronize the blast with your equipment.

SPECIAL TRANSDUCERS: Connect accelerometers, hydrophones, pressure transducers, etc. to complement measurement parameters of the blasting.

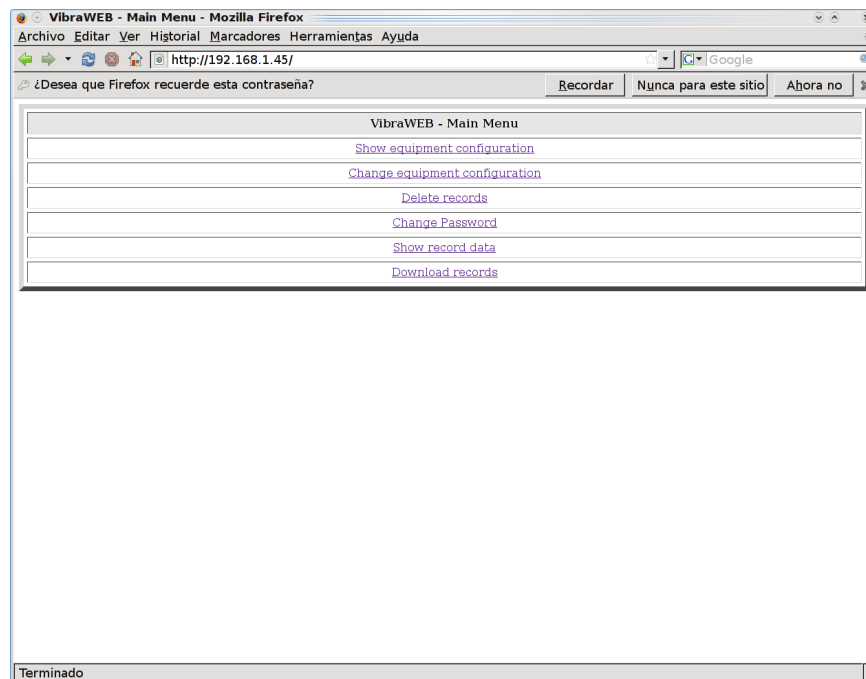
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MODEM & LAN OPTIONS

The optional modem and LAN options offer the following benefits to the equipment:

- Send SMS text messages with the data results of the record to the desired mobile phone (only with modem option).
- Remote control of the configuration parameters of the equipment with a WEB - based application (no special software required).
- Access to the data from your mobile phone or computer.
- Receive an e-mail to your account with the data of the record.
- FTP server for a fast and easy data transfer.
- Synchronization with an external time server (NTP protocol). This option allows the system clock of the equipment to stay accurate, with a maximum error of milliseconds.



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Digital vibration meter

MODEM & LAN OPTIONS

Configuration Setup - Mozilla Firefox
Archivo Editar Ver Historial Marcadores Herramientas Ayuda
http://192.168.1.45/config.html

VibraWEB Configuration

Record Time: Seconds

Trigger Levels

Channel: 1 - Trigger Level	<input type="text" value="1.00"/>	Active: <input checked="" type="checkbox"/>
Channel: 2 - Trigger Level	<input type="text" value="1.00"/>	Active: <input checked="" type="checkbox"/>
Channel: 3 - Trigger Level	<input type="text" value="1.00"/>	Active: <input checked="" type="checkbox"/>
Channel: 4 - Trigger Level	<input type="text" value="1.00"/>	Active: <input type="checkbox"/>
Channel: 5 - Trigger Level	<input type="text" value="1.00"/>	Active: <input type="checkbox"/>
Channel: 6 - Trigger Level	<input type="text" value="1.00"/>	Active: <input type="checkbox"/>
Channel: 7 - Trigger Level	<input type="text" value="20.00"/>	Active: <input type="checkbox"/>

Note: Only connected channels can be active

E-mail logger: Activate mail loggers:

Send mail to:

Alarm Levels

Level 1: If higher than of the trigger level
Send mail to:

Level 2: If higher than of the trigger level
Send mail to:

[Exit without changes](#)

Terminado

The remote configuration feature simplifies configuration and management of the equipment, it allows to change the main parameters. Is also possible to send an e-mail with the data of the record (Peak and frequency) and to attach the file if you want to analyze it.

Two alarm levels could be programmed, if the measured value exceeds the trigger level specified, a message is sent to the desired e-mail address.

Fixed IP address is recommended, but dynamic IP address is possible. In this case you receive an e-mail if the IP address changes.

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Digital Vibration Meter



Legal warning and disclaimer:

The documentation described herein shall not be considered as contractual commitment and its disclosing shall not be able to be treated as a contractual offer. By virtue of this document the Company does not assume any liability nor warranty before third parties



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