

## KIT DE SURVEILLANCE VIBRATOIRE NOMAD



### EDUCATIONAL APPLICATIONS

- Real-time monitoring of a system / triggering of machine alarms
- Kinematic study of the machine / Impact of the real speed of the system on the analysis
- Spectral analysis method + demodulation for precise identification of the faulty element (bearing, motor/pump misalignment, imbalance, pinion, cavitation, etc.)
- History Visualization, Predictive Maintenance
- Registrations, data collection
- Installation of the sensor on the system to be studied using the supplied magnetic holder or to be screwed directly onto the machine (including adapter washers)

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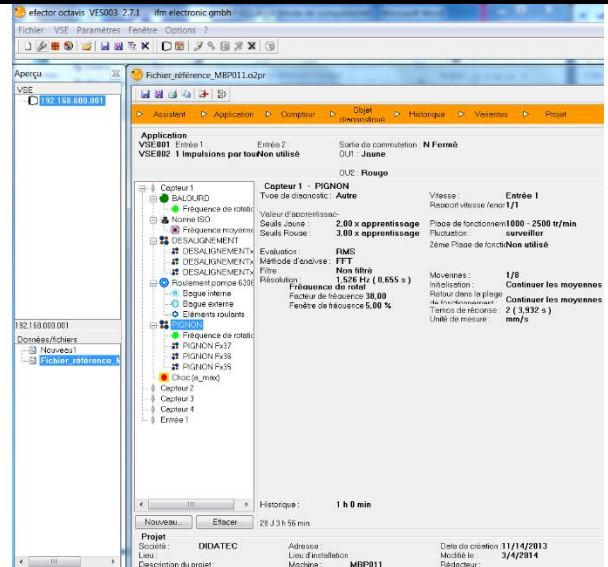
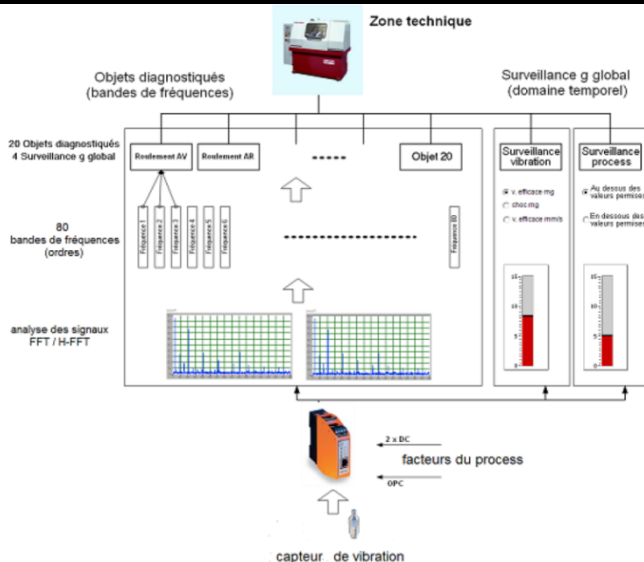
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version : FT-MBP013-STD-D

## HOW IT WORKS

The MBP013 vibration analysis kit enables the precise identification of a defective rotating machine element. The rugged design of this equipment makes it perfectly suited for use in a school setting. The manufacture of this equipment complies with the European Machine Directive. The sensor is installed on your machine using the magnetic bracket or screwed into dedicated M8 holes. Do not hesitate to consult us on our MBP011 or MTR100 machines specially developed for vibration analysis.

## Illustrations - Technical specifications - Composition



An MBP013 vibration monitoring module is composed of:

- **Vibration sensor** (micromechanical accelerometer), stainless steel housing (IP68/IP69K), vertical fixing with M8 thread, connector connection, current analogue output, vibration detection up to  $\pm 25$  g.
- **A magnetic holder** for convenient sensor placement without the need for an M8 tap
- **A set of tapered washers** for mounting the sensor in an M8 hole without chamfering
- **A power supply box** equipped with an aluminum frame for machine mounting if necessary, integrating an on/off switch & the **electronic vibration diagnostic module** with the following features:
  - ✓ Online monitoring of up to 24 objects (e.g. rolling, imbalance, etc.)
  - ✓ The monitoring of diagnosed objects can be carried out taking into account 2 process sensors (load and rotational speed).
  - ✓ Compatible with machines running from 120 to 12000rpm-1
  - ✓ **Starters:**
    - Dynamic inputs: 4 x 0...10 mA
    - Static inputs: 2 x 0/4...20 mA or pulse
    - Pulses for rotational frequency information
    - system configuration from PC (PC not included / cable included), via the software
  - ✓ **Outputs:**
    - export of data and measurements to PC via **Ethernet** (PC not included / 2 meter RJ45 connection cable included)
    - **PNP alarms**, max. 100 mA, NF/NO selectable.

**Software** (including a PC connection cord), sample files and recordings that allow you to:

- **Definition of control parameters** (number of spectral lines to be monitored, frequency of these lines, types of bearings, reduction ratios, etc.)
- **Loading these parameters** to the electronic diagnostic module
- Measurement **exploitation** and **analysis of the demodulated spectrum**, in-depth diagnosis (FFT mode)
- **Trend Recording** (Internal History Memory)

## Installation Specifications

- Power supply: 240 Vac – 50 Hz
  - Dimensions: (LxHxW mm): 250 x 200 x 120
  - Weight (Kg): 2.5
- Note: In the context of an installation of the equipment by our services, all connections to the networks must be located within 2m of the machine

## Documentation

- Instruction manual with examples of file creation
- Technical file of the equipment
- TP
- CE Certificate of Conformity

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# MBP013



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