MBP013

KIT DE SURVEILLANCE VIBRATOIRE NOMADIC

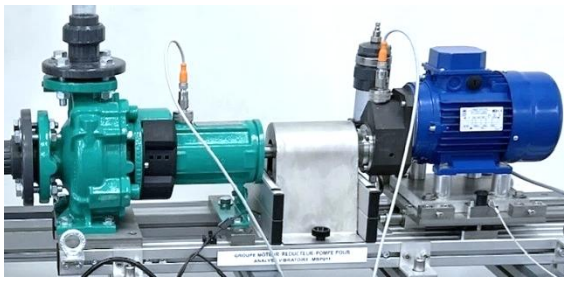


INCLUDES 2 VIBRATION SENSORS & THEIR MAGNETIC MOUNTS FOR COMPARATIVE MEASUREMENTS



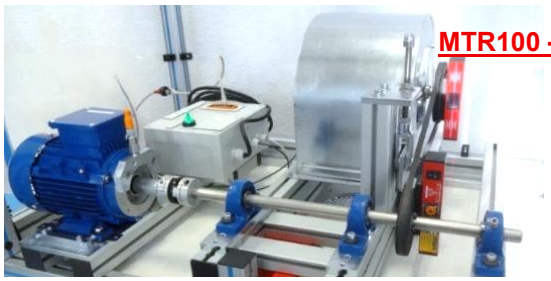
REAL-LIFE EXAMPLES ON DIDATEC SYSTEMS:

MBP011 + MBP050 – PUMPING STATION

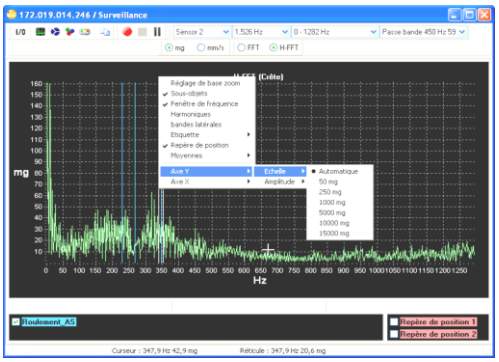


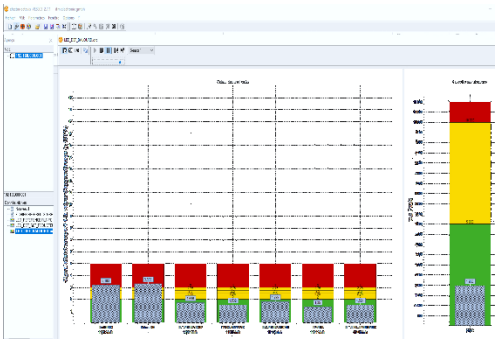


MTR100 – CENTRIFUGAL FAN









EDUCATIONAL APPLICATIONS

- **Real-time monitoring of an installation, creation of objects to be diagnosed, alarms with trigger thresholds, comparative measurements using the 2 supplied sensors, etc...**
- **Kinematic study of the machine / Impact of the system's actual speed on analysis**
- **Spectral analysis method + demodulation for precise identification of the fault element: bearing, motor alignment or pulleys, ballast, pinion, cavitation, belt tension, etc...**
- **History visualization, Predictive maintenance**
- **Recordings, data collection, etc...**
- **Installation of the 2 vibration sensors on the system to be studied using magnetic supports or screwing directly onto the machine (adapter washers provided)**

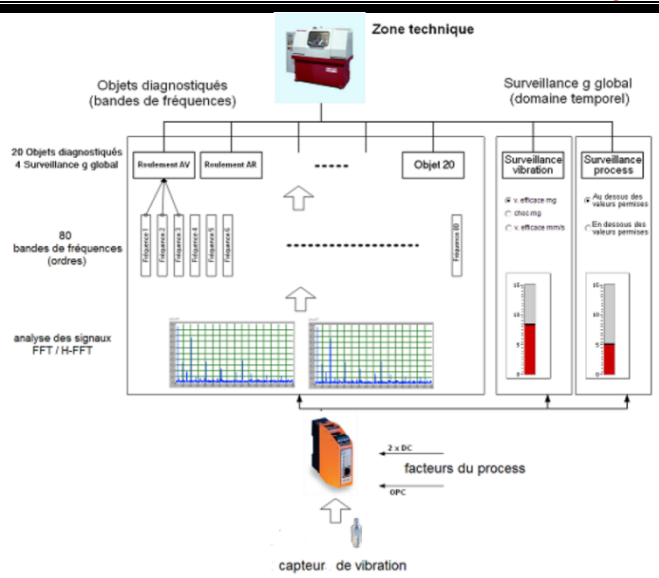
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version : FT-MBP013-STD-E

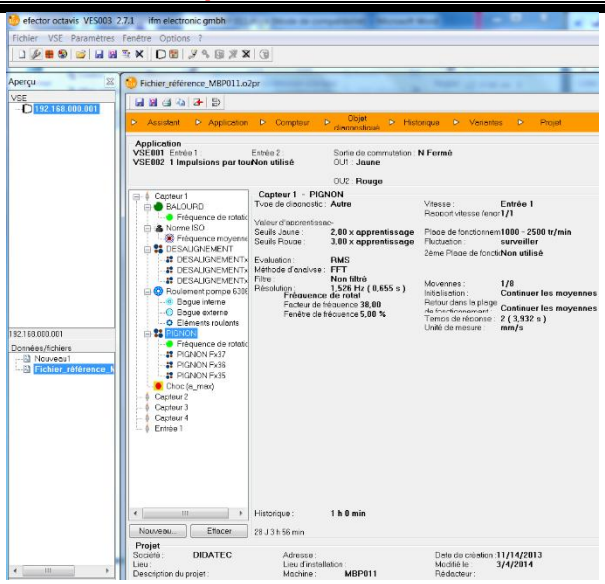
MBP013

OPERATING PRINCIPLE

The MBP013 vibration analysis kit allows precise identification of a defective rotating machine component.
The robust design of this equipment makes it perfectly suited for school use.
The manufacture of this equipment complies with the European machinery directive.
Sensors are installed on your machine using magnetic mounts or screwing into dedicated M8 holes
Feel free to contact us regarding our MBP011 or MTR100 machines specially developed for vibration analysis

Illustrations - Technical specifications – Kit composition





The MBP013 vibration monitoring module consists of:

- **Two vibration sensors allowing real-time comparative measurements** (micromechanical accelerometer), stainless steel housing (IP68/IP69K), vertical mounting by M8 thread, screw connection for M12 connector, analog output current, vibration detection up to ± 25 g. (see IFM technical data sheet reference VSA001 for more details)
- **Two magnetic mounts** allowing you to position the sensors as you wish
- **A set of tapered washers** for mounting sensors in taped M8 holes without 45° bevels
- **An inductive sensor** with screw connector for M8 connector, supplied with a mounting flange to facilitate installation on your variable speed machines. It allows real-time indication of the operating speed to the MBP013 module. DIDATEC machines ref MBP011 & MTR100 are pre-equipped for its integration.
- **A power supply box** equipped with an aluminum frame acting as a carrying handle or for mounting on the chassis of compatible DIDATEC machines ref MBP010, MBP050, MBP100 or MTR100**. It includes:**
  - ✓ **An electronic vibration diagnostic module** (see the IFM datasheet reference VSE002 for more details)
  - ✓ **An on/off switch with indicator light**
  - ✓ **A 2-meter crossover RJ45/RJ45 connection cable** to connect to your PC
  - ✓ **Two 2-meter cables with M12 connectors**, pre-wired on the 'Sensor 1' & 'Sensor 2' input of the electronic module for connecting the supplied vibration sensors
  - ✓ **A 2-meter cable with M8 connector**, prewired on the 'IN 1' input of the electronic module for possible connection of the supplied inductive sensor for pulse speed measurement on variable speed machines
  - ✓ **A 2-meter cable for connection to a 230Vac mono power outlet**
- ➢ **A duplicatable operating software** with numerous examples of reference files and records (with & without defects for comparative analysis) performed on DIDATEC MBP011 & MTR100 machines allowing:
  - ✓ **Defining control parameters** (number of spectral lines to monitor, frequency of these lines, types of bearings, reduction ratios, etc.)
  - ✓ **Loading these parameters** into the electronic diagnostic module
  - ✓ **Measurement exploitation** and **analysis** of the demodulated spectrum, in-depth diagnosis (FFT mode)
  - ✓ **Trend logging** (internal history memory)

Installation specifications

- Power supply: 240 Vac – 50 Hz
- Dimensions (LxlxH mm) : 250 x 200 x 120
- Weight (Kg): 2.5

Note: For equipment installation by our services, all network connections must be located within 2m of the machine

Documentation

- Instruction manual with example reference files, simplified procedure one for quick start
- Examples of healthy & faulty records for benchmarking, without being connected to the module
- Unlimited, duplicable operating software
- Technical file of the equipment,
- CE Certificate of Conformity

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