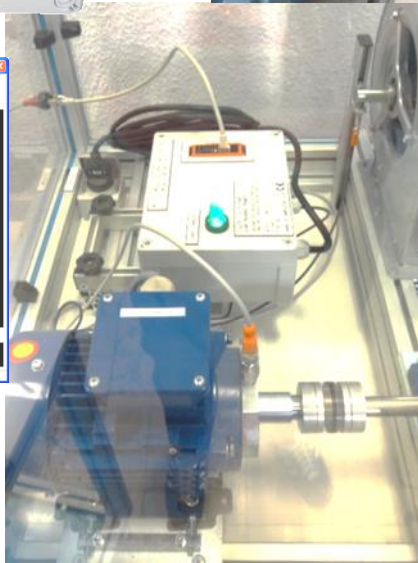
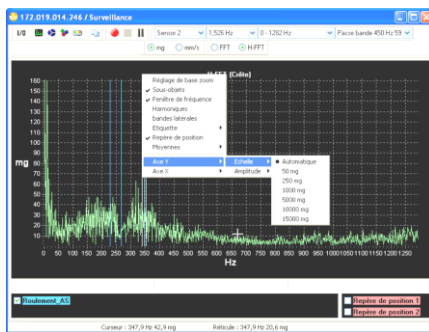


MBP013

VIBRATORY MONITORING APPARATUS



Experimental capabilities

- Continuous monitoring of an installation / alarm trigger machine
- Study the machine kinematics / Impact of the actual speed of the system analysis
- Method of spectral analysis + demodulation for precise identification of the faulty component (bearing, wrong engine alignment / pump, unbalance, cavitation ...)
- Viewing the history
- Recordings

DIDATEC— Zone d'activité du parc – 42490 FRAISSES- FRANCE
Tél. +33(0)4.77.10.10.10 – Fax+33(0)4.77.61.56.49 – www.didatec-technologie.com
email : service_commercial@didatec-technologie.com

Reproduction interdite / copy prohibited— Copyright DIDATEC juin-20- page 1

Dans le cadre de l'amélioration permanente de nos produits, ce descriptif technique est susceptible d'être modifié sans préavis
As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

Illustrations non contractuelles / Illustrations not contractual

version : FT-MBP013-STD-C

MBP013

MBP013

Operating principle

The vibration analysis kit allows the precise identification of a rotating machine defective element

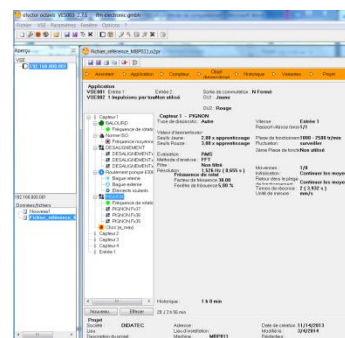
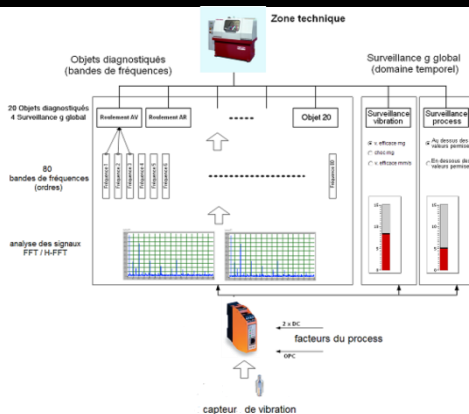
The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

This equipment can be used alone on a machine equipped with M8 tapped holes as measurement points or associated with our study unit MBP011 or MTR100 specially developed for vibration analysis.

Illustrations - Technical details



- A continuous vibration monitoring module consists of:

- A vibration sensor (micromechanical accelerometer) stainless steel enclosure (IP68/IP69K), vertical fixing by threading M8, plug connection, analog current output vibration detection up to ± 25 g.
- A supply casing with switch on / off integrating electronic diagnostic module for the vibration sensor with the following characteristics:
 - ✓ Online monitoring up to 24 objects (eg. bearing, disequilibrium ...)
 - ✓ Monitoring of diagnosis objects can be carried out by taking into account 2 process sensors (load and rotational speed).
 - ✓ Compatible with machines running of 120 to 12000tr.min^{-1}
 - ✓ **Inputs** :
 - Dynamic inputs: $4 \times 0 \dots 10$ mA
 - Static inputs: $2 \times 0/4 \dots 20$ mA or pulse
 - Impulsions for information of frequency of rotation
 - Setting up the system from PC (PC not included / cable provided), via software
 - ✓ **Outputs** :
 - Exportation of data and measurements to PC via **Ethernet** (PC not included / connecting cable RJ45 of 2 meters provided)
 - PNP alarms, max. 100 mA, NF/NO selectable.

- Software allowing:

- The definition of control parameters (number of spectral lines to be monitored, frequency of these lines, types of bearings, ratios of reductions ...)
- The loading of these parameters to the electronic diagnostic module
- The exploitation of measurements and analysis of the spectrum demodulated, depth diagnosis (FFT)
- Trend recording (internal memory of the history)

Services required

- Electrical supply : 240 Vac – 50 Hz
- Dimensions: (LxWxH mm): 250 x 200 x 120
- weight (Kg): 2.5

Documentation

- User's manual
- Technical documentation of the components
- Lab exercises

DIDATEC– Zone d'activité du parc – 42490 FRAISSES- FRANCE
 Tél. +33(0)4.77.10.10.10 – Fax+33(0)4.77.61.56.49 – www.didatec-technologie.com
 email : service_commercial@didatec-technologie.com

Reproduction interdite / copy prohibited– Copyright DIDATEC juin-20- page 3

Dans le cadre de l'amélioration permanente de nos produits, ce descriptif technique est susceptible d'être modifié sans préavis
 As part of the continuous improvement of our products, this technical specification may be modified without previous notifying



MBP013

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

- Certificate of conformity CE

DIDATEC– Zone d'activité du parc – 42490 FRAISSES- FRANCE
Tél. +33(0)4.77.10.10.10 – Fax+33(0)4.77.61.56.49 – www.didatec-technologie.com
email : service_commercial@didatec-technologie.com

Reproduction interdite / copy prohibited– Copyright DIDATEC juin-20- page 4

Dans le cadre de l'amélioration permanente de nos produits, ce descriptif technique est susceptible d'être modifié sans préavis
As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

Illustrations non contractuelles / Illustrations not contractual

version : FT-MBP013-STD-C