

Portable equipment **N130 / N330**



QUICK GUIDE

BASIC OPERATIONS

Rev. 01/2019 EN / Translation of the original instructions

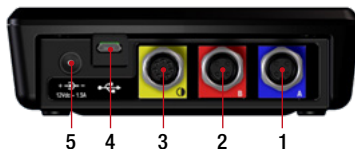
Instruments overview

N330

Ports for sensors,
power supply and USB



CONNECTION PORTS



- Connector 1:** sensor Channel A input
- Connector 2:** sensor Channel B input (N330 only)
- Connector 3:** photocell input
- Connector 4:** micro-USB port
- Connector 5:** battery charger

INCLUDED MEASUREMENT KIT



Accelerometer
with magnetic base



Accelerometer's cable
(2m length)

ACCELEROMETER SET



Photocell with
magnetic stand



Photocell's cable
(2m length)

PHOTOCELL SET (OPTIONAL FOR N130)



CONNECTION OF THE CABLES



CONNECTION:

insert the connector into the corresponding socket;
screw it clockwise until it is locked.



DISCONNECTION:

unscrew the connector counter clockwise until it is
completely extracted.

N130/N330 KEYBOARD



Switch ON/OFF the instrument
Start/Stop of the measure



Confirm the chosen setup/actions



Function keys (refer to the display)



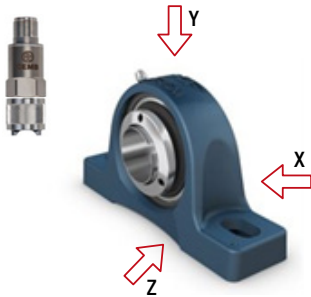
Arrow keys (UP, DOWN, LEFT, RIGHT)



Switch channels A/B (only for N330)

Sensors positioning

ACCELEROMETER



Sensor measurement direction

NOTE:

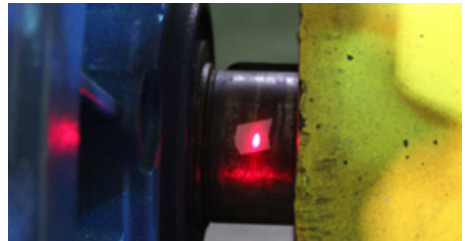
Before to use the accelerometer screw the magnetic stud to the sensor and remove the protection disk from the base.

Place the sensor on rigid parts of the machine (such as support bearings). All 3 orthogonal directions (X, Y and Z) are recommended.

PHOTOCELL (Optional for N130)

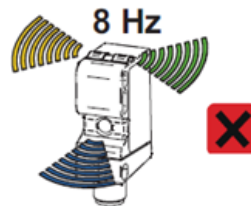
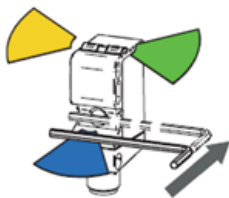
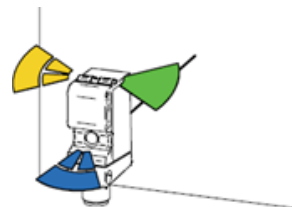
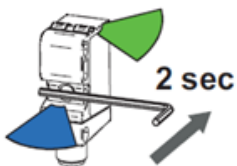


Put the reflecting tape on the shaft; place the photocell on the machine casing using the magnetic stud.

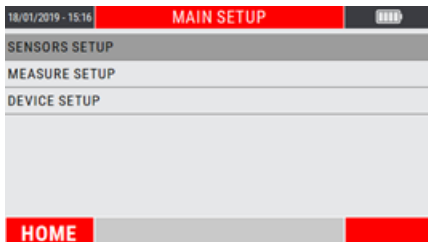


Point the photocell spot to the reflective tape previously positioned on the shaft.

PHOTOCELL CALIBRATION (Optional for N130)






Instrument setup

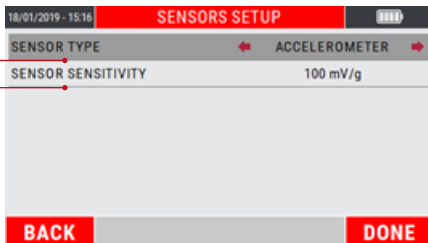


INSTRUMENT MAIN SETUP FUNCTION



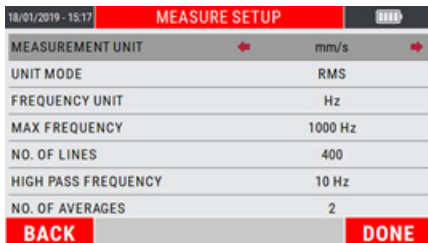
Tap keys  or  to choose the type of setup.

Tap  to confirm and access to the function.



SENSORS SETUP

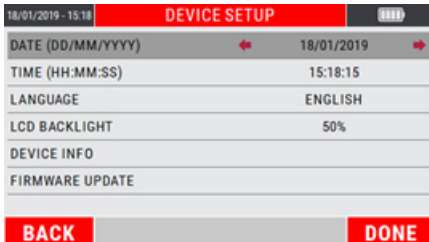
- 1 - Define the type of sensor used
(choice is between ACCELEROMETER and VELOMITOR).
- 2 - Define the sensitivity of sensor used for the measure.



MEASURE SETUP

Define all the parameters for the measure of the vibration.





DEVICE SETUP



Define all the instrument parameters such as date, time, language, etc...

NOTE:

Tap "Arrows keys" to move inside the menu and make the choices.

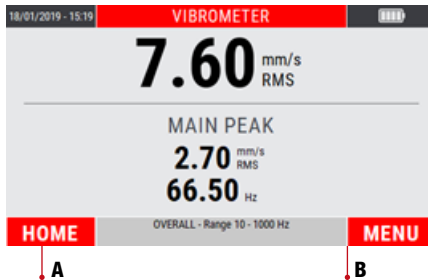
Tap **F1** (DONE) to confirm the setup; tap **F2** (BACK) to leave the setup without any changes.

How to take a measure

From the **MAIN MENU** select the required measure function (this is applicable to **VIBROMETER**; **FFT**, **CBA**, **TACHO**).

After to start-up the monitored rotating machine, tap **OK** to start the acquisition.

When the reading is stable or when you want to shut down the acquisition, tap again **OK**.

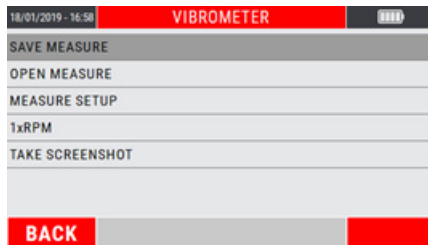


In every function are available function keys **HOME (A)** - goes directly to the instrument home page, and **MENU (B)** - shows the menu of the function used.



Tap **F1** for **HOME (A)**;

Tap **F2** for **MENU (B)**.



The **MENU** screen is different depending of the function in use.

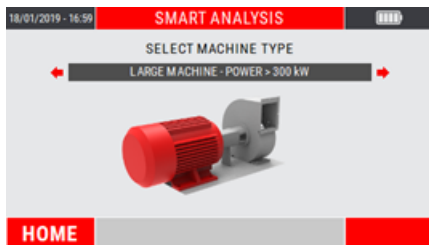


Tap keys **↑** or **↓** to scroll the MENU options.



Tap **OK** to select the desired MENU option.

Smart Analysis - Setup pages


STEP No.1: CHOOSE THE MACHINE TYPE



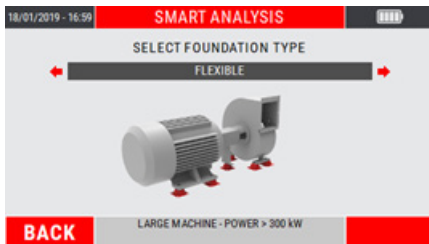
As per **ISO 10816-3**, requirements, choose the correct machine type.



Tap  or  to choose the machine type.

Tap  to confirm the selection.

Tap  HOME to exit to the function.

STEP No.2: CHOOSE THE FOUNDATION TYPE



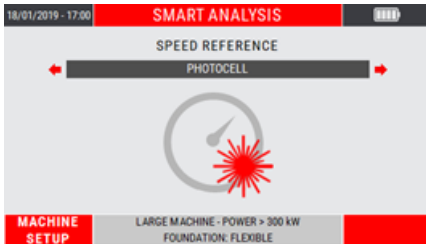
Tap keys  or  to choose the foundation type.



Tap  to confirm the selection.

Tap  (BACK) to go back to machine type setup.

Smart Analysis – Setup pages


STEP No.3: CHOOSE THE SPEED DETECTION MODE



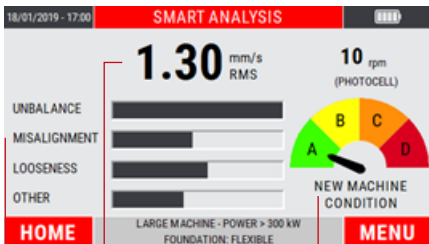
Tap keys  or  to choose the speed detection mode.





Tap  to confirm the selection.



Tap  (MACHINE SETUP) to go back to machine type setup (see step No.1).

STEP No.4: MAKE A MEASURE



While the machine is running, tap  to start the acquisition.

Tap again  to stop the acquisition.

Tap  for HOME (A); tap  for the MENU (B).

Causes of vibration

Overall vibration



Machine judgement

How to save a measure

STEP No.1: CHOOSE OR CREATE A PROJECT



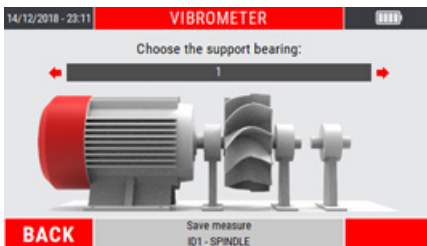
Tap **F2** (NEW) to create a new project.

Or tap keys  /  to scroll the existing projects.



Tap **OK** to confirm the selection.

Tap **F1** (BACK) to exit from the function.

STEP No.2: CHOOSE THE NUMBER OF SUPPORT BEARING



Choose the number of bearing starting from a default point.

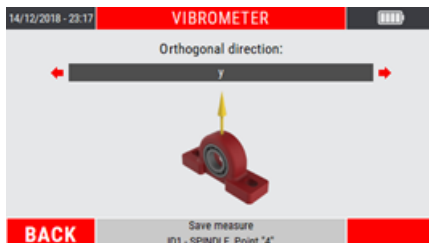
Tap keys  or  to choose the support number.

Tap **OK** to confirm the selection.

Tap **F1** (BACK) to go back to list of existing projects.

How to save a measure


STEP No.3: CHOOSE THE ORTHOGONAL DIRECTION



Tap keys  or  to choose the orthogonal direction.



Tap  to confirm the selection.

Tap  (BACK) to go back to the previous step.



For detailed information please refer to the N130/N330 user manual on the USB pen supplied with your instrument.





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