

Starting Guide

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KEYVIBE is a smart device capable of analyzing in real time the operating status of your machine thanks to the vibration it generates. After a simple and non-invasive installation, it transmits its information directly to your KEYPROD web platform via Wi-Fi.

Thus, it will be possible for you to follow-up your workshop production activities in real time from your browser.

The KEYVIBE is designed to be installed according to the installation recommendations listed in this user guide.

 For more details, the QR code visible on the box of your KEYVIBE will give you access to the dedicated website page.

Packaging content (5 items)



KEYVIBE

Transmits the operating status of the machine thanks to its vibratory analysis.



CHARGER

Connects to the mains plug your device.



USB-C CABLE

Must be connected to the charger to power your device.
(DO NOT use the USB to power the device without using the Charger)



RJ45 CABLE

To plug to the KEYVIBE to configure it.



4 M4 BLACK SCREWS

To fix the device to the machine permanently.
(Torx T20 wrench or screwdriver recommended)

KEYVIBE technical description 1/2



POWER 
Device powered ON

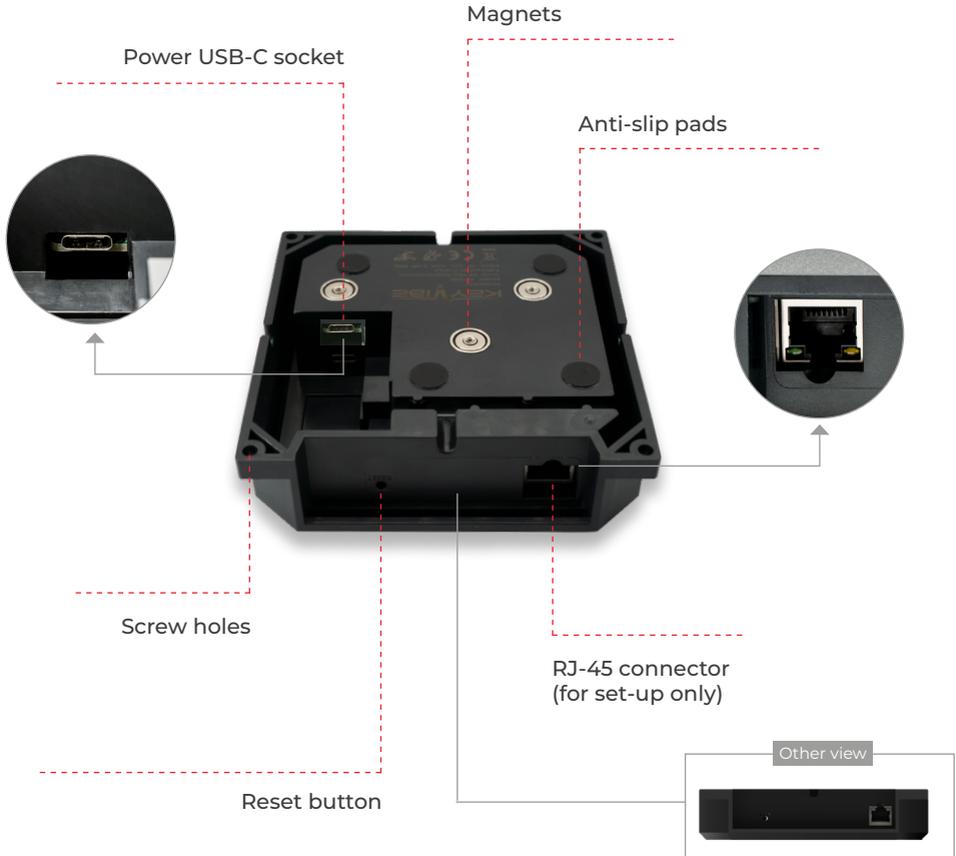
 **MACHINE STATUS**
Machine ON

WI-FI CONNECTION 
Connected to the network

 **KEYPROD CONNECTION**
Connected KEYPROD

 For more details, go to the page on Led indicators

KEYVIBE technical description 2/2



Led Indicators



POWER

 Device powered ON

WI-FI CONNECTION

 Connected to the network

 Unconfigured network

 No internet connection

 Wi-Fi no problem

 Connection in progress (Blinking)

KEYPROD CONNECTION

 Connected KEYPROD

 Device not associated with its environment

 KEYPROD currently unavailable

 Issue to connect to KEYPROD

MACHINE STATUS

 Current machine status «ON»

 Unconfigured threshold

 Current machine status «OFF»

 Change of state in progress (Blinking)



KEYVIBE INSTALLATION

Requirements : associate your machine



For a successful installation of your KEYVIBE, please follow the requirements below:

- a.** Go to the KEYPROD platform settings, and in the « PRODUCTION » section, click on **PARK MACHINES**
- b.** From your dashboard, click on « Add a machine ». A pop-up window will appear. Enter the information needed to associate your KEYVIBE with your machine.



Click on video for more details



1 - Make sure you have an electrical outlet near the machine to be monitored



2 - Make sure the machine you want to monitor is covered by a Wi-Fi network connected to Internet

 To set up your device, we recommend that you use the same Wi-Fi network as the one available in your workshop. We recommend to dedicate this network to IoT.

KEYVIBE installation 1/3



1 KEYVIBE PLUGGING

Power your KEYVIBE by plugging the USB-C cable.

The following indicators will appear:⁽¹⁾



Power OK



Unconfigured network



Unassociated device



Unconfigured threshold



(1) Please wait - it may take up to 60 seconds

2 ACCESS TO THE CONFIGURATION APP

- Connect your KEYVIBE to your computer using the RJ45 cable.
- Launch your web browser⁽²⁾
- Access the configuration app by typing the following URL: « 10.10.10.1 »

(2) We advise you to use google chrome or mozilla firefox for a perfect use of our solution





3 WI-FI CONNECTION

Select your workshop Wi-Fi network and insert in your password.

The following Led indicators will appear:⁽¹⁾



Power OK



Network OK



KEYPROD
connection OK



Unconfigured
threshold



(1) Please wait - it may take up to 60 seconds



Once you have saved your Wi-Fi information, you may unplug your KEYVIBE. You can then install it on your machine.

4 POSITIONING

Position your KEYVIBE by magnetizing it directly to your machine, making sure that the device remains continuously powered.



If you don't have a magnetic surface, you can attach your KEYVIBE using M4 screws.



In order to choose the correct location for your device, please check Positioning of your KEYVIBE



KEYVIBE installation 3/3

5 BACK TO THE CONFIGURATION APP

To reactivate the configuration application:

- From the KEYPROD platform settings, in the « PRODUCTION » section, click on **PARK MACHINES**
- In the « Device » column of the table, press the **KeyVibe** button, and a pop-up window will appear. Then click on **CONFIGURATION APPLICATION**

 You can access the settings by clicking on  in the menu at the top right of the KEYPROD platform.



6 AUTOMATIC CONFIGURATION

To start automatic configuration, make sure the machine is stopped and start the setup.

The following indicators will appear:



KEYVIBE positioning assistance

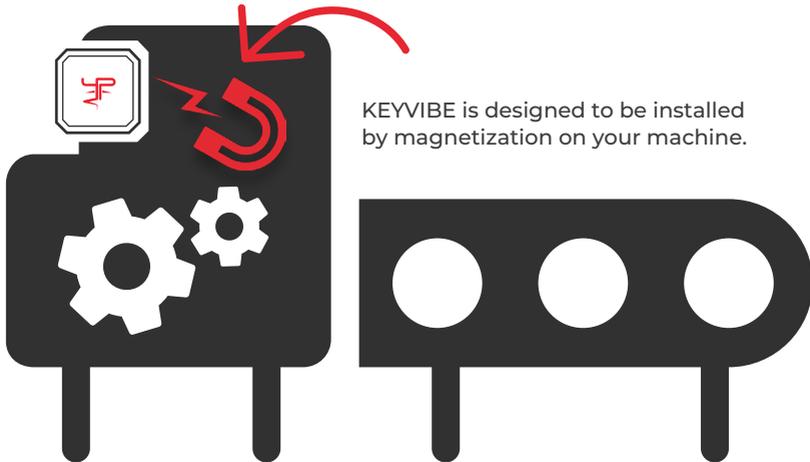


KEYVIBE must be positioned at a spot OUTSIDE of the machine where the vibration generated correspond to the actual production activity of the machine to monitor.

DO NOT install the device inside a machine, or in a place where it could be damaged or exposed to abnormal temperatures or fluids.

We therefore recommend to keep it away enough from external vibrations that could influence the signal captured (e.g.: conveyor, engine ...).

If necessary, you can use the custom configuration feature of the configuration app to run tests and ensure the correct positioning.



Congratulations!

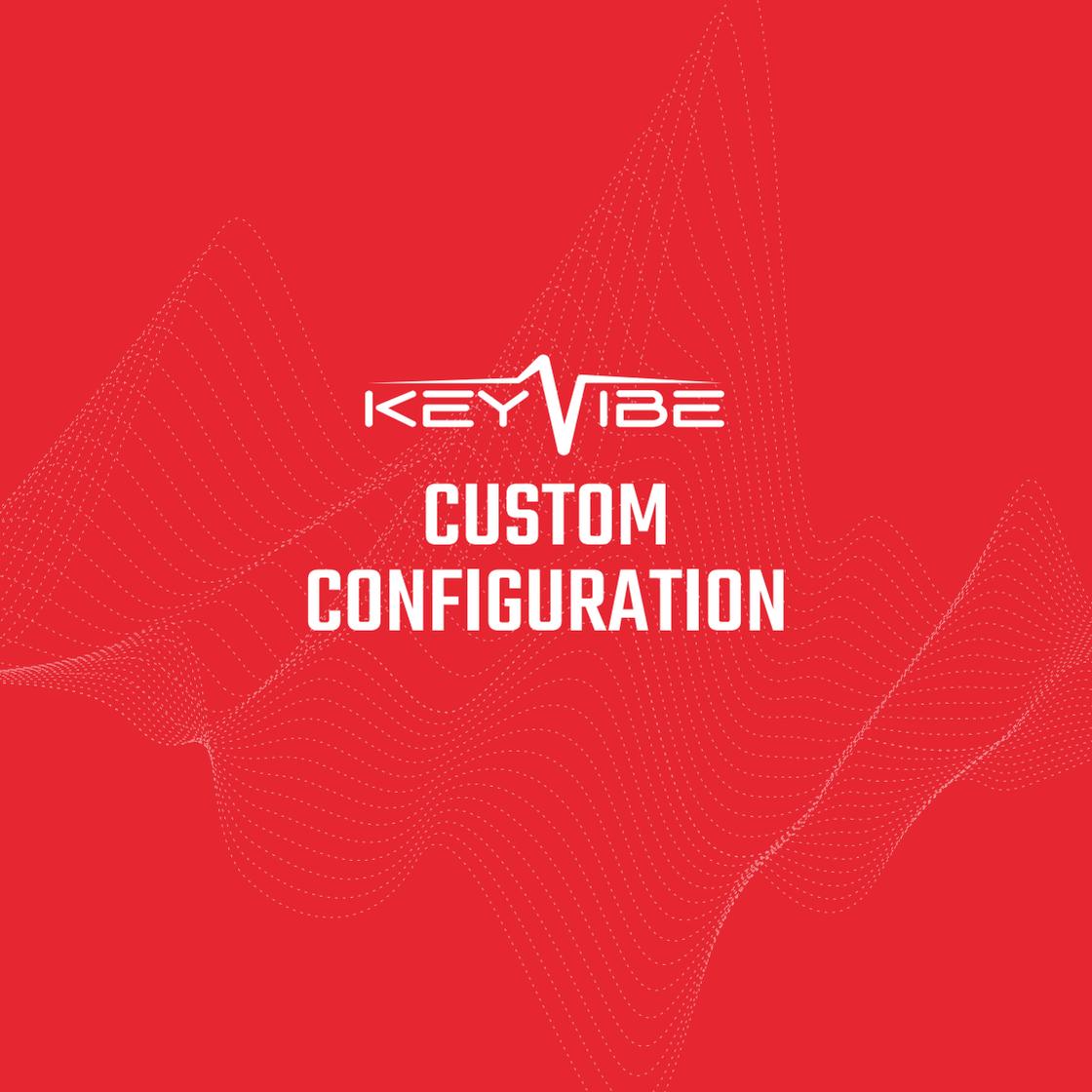


YOUR KEYVIBE IS NOW SET-UP

**START YOUR ADVENTURE
IN THE INDUSTRY OF THE FUTURE**



You can now track your machine status in real time and
enjoy the features of **KEYPROD**



KEY VIBE

**CUSTOM
CONFIGURATION**

Example of a customized configuration 1/4

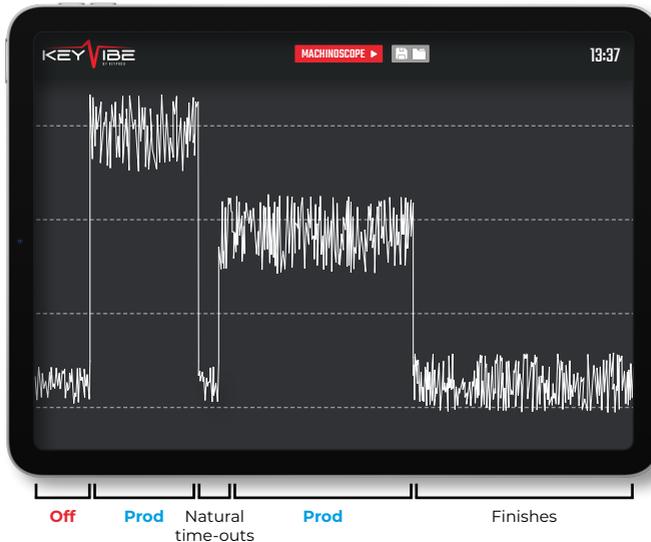


1 CAPTATION START

Once your KEYVIBE is installed, you can also run a custom configuration to set it up manually. This configuration can be done with the machine running.



This configuration can be carried out during machine operation.



Example of a customized configuration 2/4



2 THRESHOLD POSITIONING

Threshold is the value used to define the **On** or **Off** status of the machine.

If the data reported is above the threshold, the machine will be considered **On**

Conversely, if the reported data is below the threshold, it will be considered **Off**

Here is an example of capturing vibration of a machine when stopped then on and then off again:

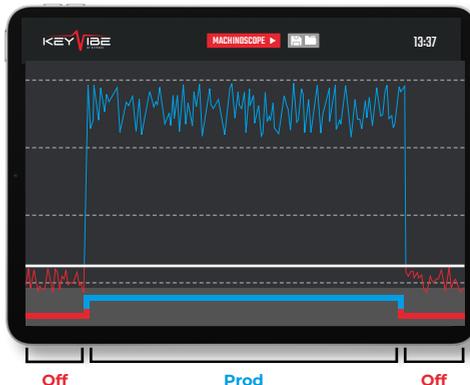


The threshold is represented by the straight white line. Its value is between 1 and 9999 mG.

Without threshold



With threshold



Example of a customized configuration 3/4



3 BUFFER ADJUSTMENT

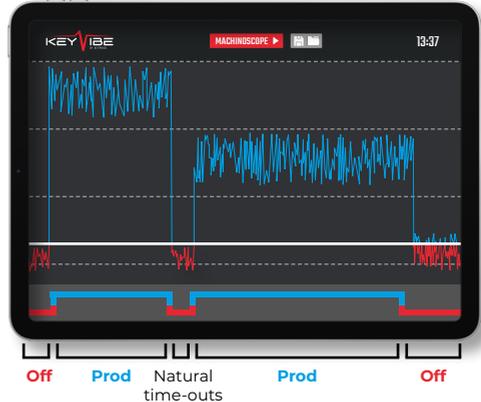
The buffer is a period of buffer time between two state changes.

This buffer smoothes out changes in machine state by eliminating abnormal vibration peaks and dead times during a cycle.

A short buffer makes the information more real time but it is more sensitive to parasitic or surrounding vibrations, while a longer buffer provides more relevant information, but less frequent and less precise.

 The buffer value is between 1 and 300 seconds. By default, the value is 5 seconds.

Without buffer



Threshold + Buffer



Example of a customized configuration 4/4

4 SENSITIVITY MANAGEMENT

Combined with the buffer, a proper level of sensitivity will influence uncertain vibrations to be considered ON or OFF.

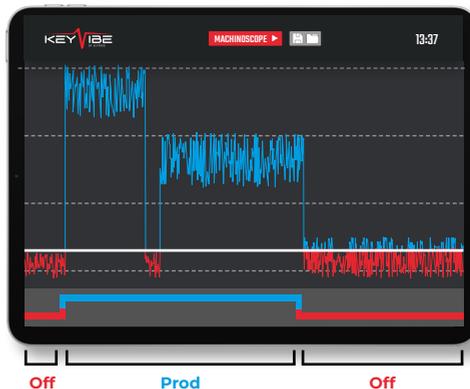
A high sensitivity gives more weight to the **On** state.

This can for example be useful for finishing operations where vibrations above the threshold are rarer.

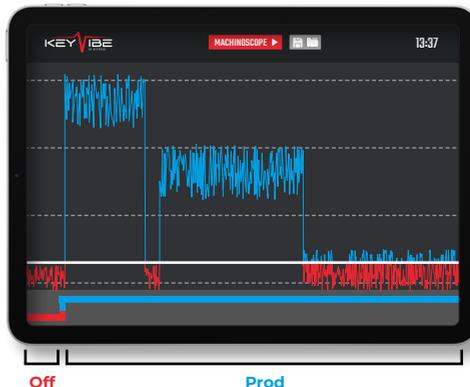


Lowering the sensitivity gives more weight to the «OFF» state. Be careful, lowering the sensitivity too much could prevent the KEYVIBE from recognizing certain production phases.

Threshold + Buffer



Threshold + Buffer + Sensitivity



Additional features



RECORDING

Save up to 10 recordings.
Find them by clicking
on the 

This allows you to load
them onto your graph
and validate your
settings by comparing
different situations.



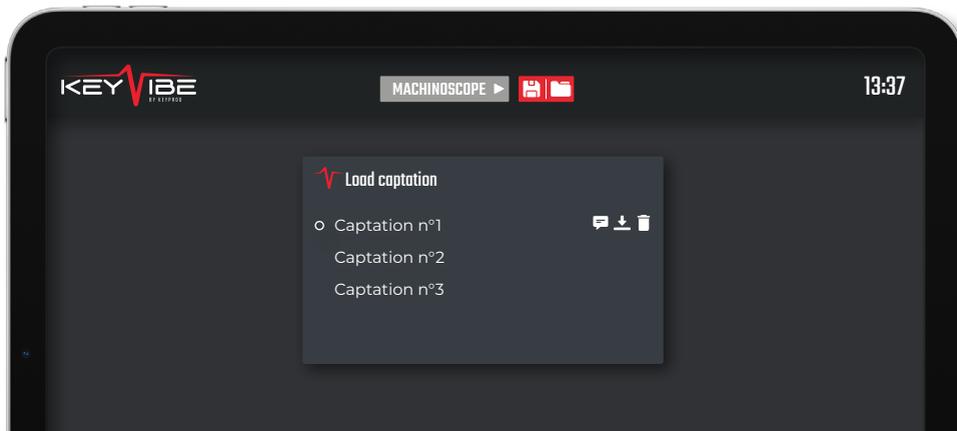
DOWNLOAD

Download your
recordings. This allows
you to keep as many
recordings as you like,
and simplifies the work
of our services in the
event of KEYPROD
support intervention.



IMPORT

Import previous
vibration recordings.
This allows you to re-dis-
play a downloaded
vibration recording and
compare it with your
current settings.



Network flows



Internet



(HTTPS)*.app-keyprod.com:443

(SSL)*.amazonaws.com:8883
(HTTPS)*.amazonaws.com:443

(NTP)*.pool.ntp.org:123
- 0.debian.pool.ntp.org
- 1.debian.pool.ntp.org
- 2.debian.pool.ntp.org
- 3.debian.pool.ntp.org

Local network



FAQs Led indicators



STATUS



KEYVIBE is not powered and the software is not running



KEYVIBE is being reset



Breathable blue : Startup/update in progress



Network is not configured



Threshold is not set



KEYVIBE did not launch correctly



Wi-Fi connection problem



Internet connection problem



KEYPROD communication problem



Machine not in production

TIPS

Check that your device is correctly connected to the mains. If this condition persists, contact KEYPROD support.

This is a temporary state, so don't unplug the device.

This is a temporary state, so don't unplug the device.

Register Wi-Fi and password.

Save the desired KEYVIBE settings (threshold, delay and sensitivity).

Make sure your power supply complies with safety measures. If this condition persists for more than 30 seconds, contact KEYPROD support.

Make sure that Wi-Fi and its password are set correctly.

Make sure the Wi-Fi network has Internet access and that the required ports are open (see Network Flow).

Make sure the required ports are open (see Network Flow).

If this status appears while your machine is in production, check your device settings in your configuration application.

Terms & Conditions



WARANTY

KEYPROD guarantees your KEYVIBE for 2 years against defects in material and workmanship. Only applies to what is contained in the original packaging. Invalid if the installation, storage or use of the product is not carried out in accordance with the use of the product. KEYPROD does not guarantee this product against normal wear and tear, nor against damage caused by accidentally or through misuse. Do not disassemble your KEYVIBE or attempt to open it.

SAFETY MEASURES

The KEYVIBE product is intended for professional use only. Place your KEYVIBE away from splashes (liquids, particles, etc.). Clean the product with a soft cloth. Caution: Do not immerse or splash any liquid on the product. The product is designed to operate at ambient temperatures ranging from 0°C to 50°C. Do not exceed this maximum temperature during operation. Use only the accessories supplied with your KEYVIBE to ensure optimal installation, power supply, operation and warranty conditions.

Protect your KEYVIBE from bumps and drops. Avoid bumping or damaging the product. Avoid exposure to electromagnetic fields. Keep the KEYVIBE away from the face, body, pacemakers and other electronic medical devices (within 20cm).

Do not disassemble the product. Never open the product's casing and make sure the casing is securely fastened before turning on the power. Stop using the product if any part is cracked, broken or overheating. Contact KEYPROD's service department : support@keyprod.com

Do not place the product higher than 2m from the ground.

STORAGE CONDITIONS

Be sure to observe the following recommendations for storing your KEYVIBE:

- store the product in a clean, dry place;
- keep it away from heat sources;
- respect the storage temperatures (0°C/+50°C).
- keep the product away from mechanical shocks (crushing, dropping...)

SOFTWARE AND UPDATE

To ensure its operation, the KEYVIBE embeds several applications including those of configuration accessible without installation via RJ45 or Wi-Fi when configured. These applications can be updated remotely (Over The Air) for correction and improvement purposes. More information on : www.keyprod.com



ENVIRONMENTAL PROTECTION : Please follow local waste disposal regulations when disposing of the packaging and product.

Take it to a collection point for proper recycling. Do not dispose of used electronic equipment in your regular trash.



CONFORMITY : 0536 KEYPROD declares that this

product is in compliance with the essential requirements and relevant provisions of Directive 2014/53/EU, and ROHS Directives 2011/65/EU and 2015/863/EU. The latest applicable version of the Declaration of Conformity conformity can be found at : www.keyprod.com

PRODUCT MARKING AND IDENTIFICATION

Serial number KP.VBE.A003.01.123456 is composed as follows:



Label French Fab



Logo KEYPROD

More information on request: support@keyprod.com

Technical specifications



Features	Description
Input voltage range	100-240 Vac, 50/60 Hz
Output voltage	5 V dc
Nominal current	0,5 A
Watt Power	2,5 W
Operating temperature range	0°C - 50°C
Use in	Indoor Industrial environment
Dimensions (L x l x h)	120 x 120 x 35 mm
Weight	280 g
Altitude	< 2 000 m
Humidity	< 80%
Level of pollution	2
Level of protection (following IEC 60529) IP2X	IP2X
Interfaces	Power : USB-C connector Cable connection : Ethernet RJ45 Reset : button
Network frequencies	WiFi 2,4 GHz (b/g/n) : 2400 – 2483,5 MHz WiFi 5 GHz (a/n/ac) : 5150 – 5350 MHz
Transmitting power	100 mW
Number of canals / separation	WiFi 2,4 GHz : 13 canals / 20-40 MHz WiFi 5 GHz : 1 canal / 20 MHz ou 40 MHz



Join us



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