# CrankSense <u>mistionic</u>



WIRELESS CRANKSHAFT DEFLECTION TEST KIT

## IMPORTANT NOTES

- Turn on both Bluetooth transmitter AND digital indicator before pairing.
- Turn off both Bluetooth transmitter and digital indicator after each use. They will NOT turn off automatically.
- Do NOT open the Gauge. Opening causes permanent damage and voids the warranty.
- CrankSense Wireless Crankshaft Gauge operates on two separate batteries: 1) Rechargeable built-in Li-Po battery for the Bluetooth transmitter. 2) Coin SR44 or LR44 battery for the digital dial.
- Use the punch included in this kit or other 60° punches to create blunt points on crankshaft webs to create sitting spots for the gauge tips.
- Adjust the adjustable probe to keep the gauge travel around the middle of its measurement range.

## WHAT'S IN THE BOX

#### 1 Wireless CrankSense Gauge 2 **BLE USB Dongle Extension Rod Set** 3 4 Protective CrankSense Case 5 60° punch 6 **USB** Power Adapter 7 **USB Charging Cable** 8 CrankSense Coin Battery 9 Documents behind lid foam



Motionics, LLC © 2025 Motionics, LLC www.motionics.com All Rights Reserved info@motionics.com Made in the USA

# SOFTWARE DOWNLOAD

CrankSense app/ software is available for free on iPad and Windows devices.

For direct download, click the link below or scan the QR code.

#### CrankSense for iPad

https://apps.apple.com/us/app/cranksense/id1009483905

#### CrankSense for Windows:

https://motionics.com/downloads/crankshaft-windows/setup.exe

# **QUICK START FOR IPAD USERS**





1. Connect the wireless gauge to the adjustable probe. Add extension rods based on the crankshaft web gap.

2. Turn on BOTH the digital indicator and the Bluetooth transmitter on the gauge. Pair the aquae in the iPad app.



3. Create 60° blunt points on the crank shaft webs using the punch in the kit. Install the wireless gauge between two blunt points.



5. Rotate the crankshaft pin to near the bottom position. Once the A button turns areen, tap on it and start data collection.



4. Rotate the crankshaft pin to the top vertical position. Adjust the orientation of the wireless gauge until the C button turns green in the iPad app.



6. Rotate the crankshaft counter-clockwise, then tap buttons B to E one by one when they turn green to finish the test for one web.

2







# WIRELESS CRANKSHAFT DEFLECTION TEST KIT

### **CRANKSENSE FOR WINDOWS**

To use CrankSense with our Windows software, you need Bluetooth USB dongle BLED112. This dongle comes with the kit.

• More detailed instructions can be found in the Help tab in the software.

#### A CRANKSENSE WINDOWS INTERFACE



### CRANKSENSE WINDOWS INSTALLATION

- Download the Windows 'setup.exe' installer. Run the installer to install CrankSense software.
- You should have received 1x BLED112 USB dongle. Connect the dongle to your PC.
- Run the software. For first time use, it will ask for permission to install dongle driver. Allow and wait for driver to be installed.
- Go to the Gages tab and click the + button next to Donales, if a COM Port with the device name "Bluegiga Bluetooth Low Energy" is found, the driver is automatically installed. No further steps are needed and you can jump to the Quickstart for Windows Users section.



INSTALLING THE

USB DONGLE

• If the driver is not automatically installed, manually download the driver zip file: www.motionics.com/downloads/BLED112-Signed-Win-Drv.zip. Then unzip it.

• Go to Control Panel - System and Security - System - Device Manager. In Device Manager, expand Ports (COM & LPT), find the Bluetooth low energy dongle (usually displayed as USB Serial Device), right click, select Update Driver Software. TUTORIAI :

 Select Browse my computer for driver software, select the path where the unzipped driver folder downloaded in previous steps is stored, then click Next. If a prompt window appears, click 'allow' to install the driver.

#### QUICK START FOR WINDOWS USERS

#### CONNECTING THE GAUGE

- Connect the USB dongle, turn on your wireless crankshaft gauge (dial AND transmitter). Run the software.
- Go to the Gages tab and click the + button next to Dongles. Select a dongle from the list and press Select.
- Each dongle can connect up to 8 devices, and you can add more dongles to connect more devices.
- Press the Scan button to begin searching for nearby devices.
- Select devices from the pop-up window and press Connect.
- Once connected, each device will be added to the Gages list alonaside its name, reading, anale reading, battery level, and signal strength.

#### TEST SETTING AND CONFIGURATION

- Go to the Dashboard and click New Test.
- Enter the engine configuration information in the Test Configuration window.
- If you need to change the configuration settings during the test, you can press the button on the bottom of the screen.
- · Click the dropdown menu on each web panel to assign a gauge to each web. Live readings will then display on the panel.
- Go to the Settings tab to choose continuous or single capture mode.

#### **RUNNING THE TEST**

- If you're in continuous mode, press the record button to begin the test. Readings will be taken automatically at each test point and the test will stop one each test point has been reached.
- If you're in single capture mode, press the capture button under each web column to capture a reading when the indicator needle is on a test point (the point will change color once reached).
- Press the Save button to save readings according to plant and engine.
- To access previously saved readings, go to the Measurements tab.
- To add an engine configuration, go to the Settings tab, click Engine Configurations, and press the + button. You can click on an existing configuration to edit it.
- For more instructions, please go to the Help tab.



# **SCAN THE OR CODE FOR:**

PRODUCT INFO • VIDEOS • SUPPORT • DOWNLOADS • WARRANTY • FAOS Or visit www.motionics.com/cranksense

www.motionics.com All Rights Reserved info@motionics.com Made in the USA 3