



User Guide

Sensor & App Quick Start Guide



A **Measure** of Confidence

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Sensoteq Chi is an industry leading system that monitors vibration and rotating patterns. The Chi app can connect with up to four Chi sensors and presents the data in an easy to understand view, helping engineers and technicians to get an in-depth look at the energy and rotating profile for their machinery. Data can be transmitted to our Analytix platform for detailed analysis and data storage.

Item Checklist

Thank you for purchasing a Sensoteq Product. Please ensure you have all the items listed before proceeding with installation. If anything is missing, contact us using the info on page 15



**Sensoteq Chi
Wireless Sensors**



Android Tablet



**Charging Cables for
Sensor and Tablet**



Sensor Dust Covers

Your kit may contain 2 or 4 sensors depending on the option chosen. Android tablet is an optional extra



Quick Start Instructions

1. Place sensors

Remove from kit and place in correct alignment on flat surface of machine intended for analysis

2. Open the app

Refer to page 12 for download instructions, or search 'Sensoteq Chi' in the Google Play Store

3. Log In

Enter your Sensoteq credentials. Alternatively, you can opt to remain logged out but you will be unable to save data



Quick Start Instructions

4. Select Mode

Select a test mode to view a list of nearby sensors. The ID label on each sensor helps to identify the required sensor

5. Gather Data

Begin session to start collecting data in 10 second cycles. Compare results from multiple sensors. Pause or stop when you are finished

6. Save

Saved data is uploaded to the Sensoteq Analytix platform for remote diagnosis and reporting capabilities



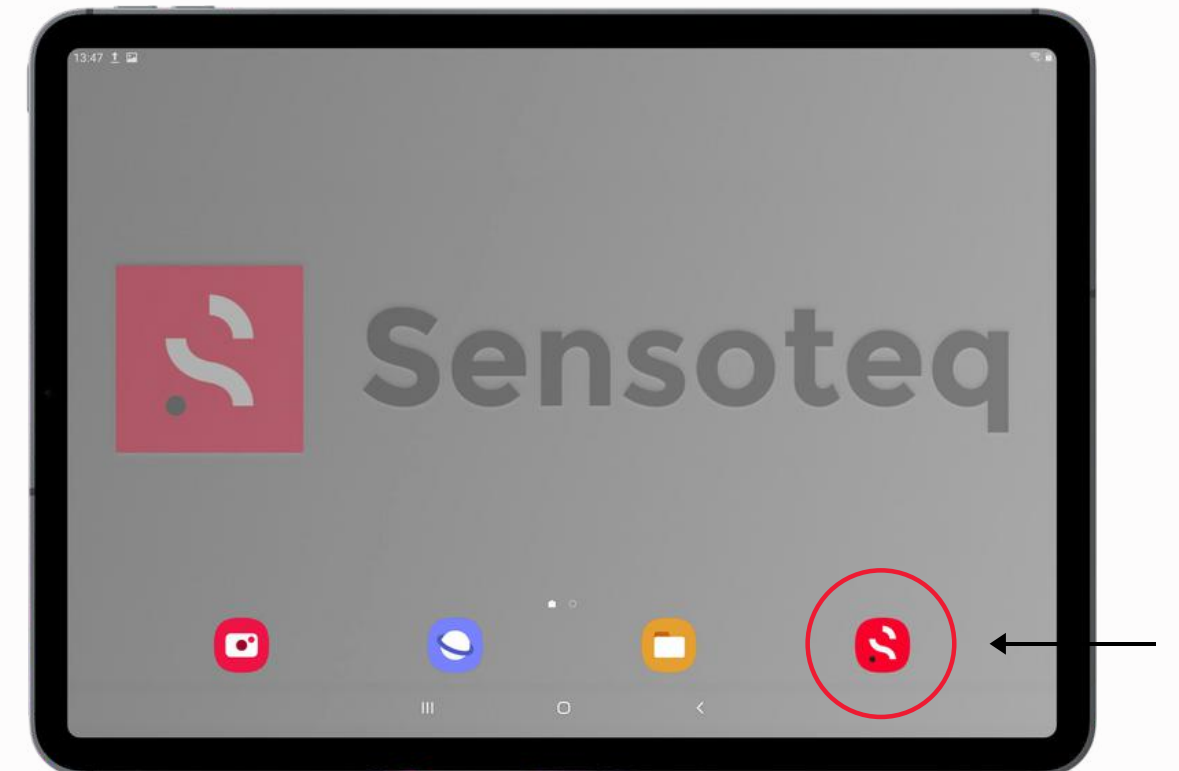
Android Tablet

If you purchased a tablet with your service tool kit, it should be ready to use, however a charging cable is provided should it need charged up. You will need to download the Sensoteq Chi app from the Google Play store. See page 11 for assistance.

The Sensoteq Chi application handles the Bluetooth communication settings when required so you should not need to turn this on or off manually. Ensure that location services are enabled.

Following download, the Sensoteq application should be visible as shown. Tap to open it. You will be welcomed with the app home-screen giving you an option to log in to your Sensoteq account or to make a Quick Measurement.

After selecting a mode and measurement, you will have the option to choose which sensor you wish to monitor. The name displayed on the app will correlate to that of the sticker on your sensor. Select which sensor you require data from to view and if logged in, save.





Welcome to your Chi Service Tool

Let's Get Started.

Refer to 'Troubleshooting' or 'Service Tool Support' pages if you are having issues

This is your wireless sensor:



The sensor is always on and has auto-wake functionality. Ensure it is charged using the USB power adapter provided. Allow one hour for a full charge. This will permit for up to 24 hours of measurement.

You can check the battery charge level in the application on your tablet. When reading data from the sensor the charge percentage is shown at the bottom of the screen.

The sensor base is magnetic. Affix it to any ferrous surface to detect triaxial vibrations and surface temperature. This information is then sent to your tablet for viewing.

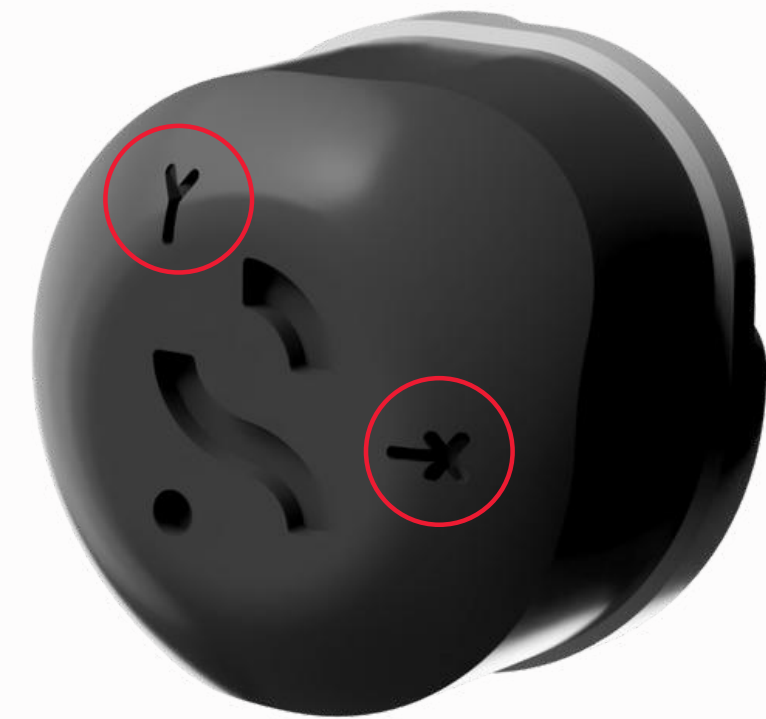


Alignment

The X and Y on the front of your sensor indicate the direction of the radial measurement. The Z axis measurement is through the base of the sensor.

Each sensor is rated to IP64, meaning no ingress of dust when used together with the enclosed dust cap. The sensor is weatherproof, protecting against splashing water or rain. Do not submerge.

The sensor measures temperatures ranging from -10 to 60°C and withstands environmental temperatures ranging from -40 to 85°C.



Sensoteq Chi

Android App

The Sensoteq Chi app is where you view measurements taken by your sensors. Scan the QR code below to download the app or search 'Sensoteq Chi' on the Google Play store. It is currently only available on Android devices



Scan to download the
Sensoteq Chi App

Modes



Quick Measurement

Show data on the device only



Online Defined Measurement

Sample data and send to our Analytix platform for further analysis

Measurements



Vibration Analysis

Measure a vibration waveform and spectrum to show the energy levels



Stroke Analysis

Analyse the stroke pattern of your machine at up to four points at once



Hammer Test

View the fundamental frequencies of your machine structure

Sensoteq Analytix

Your Chi app connects to the Sensoteq Analytix platform for in-depth diagnosis. View historical or recent data sorted by machine name or measurement type in detail, with advanced features and tools to give you greater insight into the behaviour of your machines



Scan to view full Sensoteq
Chi App User Manual



Troubleshooting

If one or more sensors are not displayed by the app:

Make sure the sensor is within range. Typical range is up to 20 metres



Ensure your sensor is charged. A full charge takes 1 hour



Ensure Bluetooth and location services are enabled on android device



Updates may have been installed on your app. To refresh, shut down the app and reopen



Contact Us

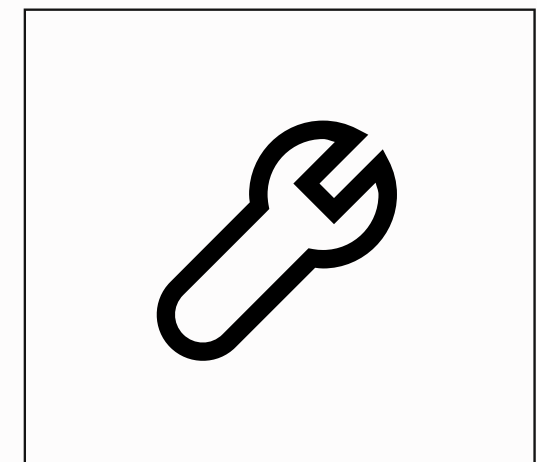
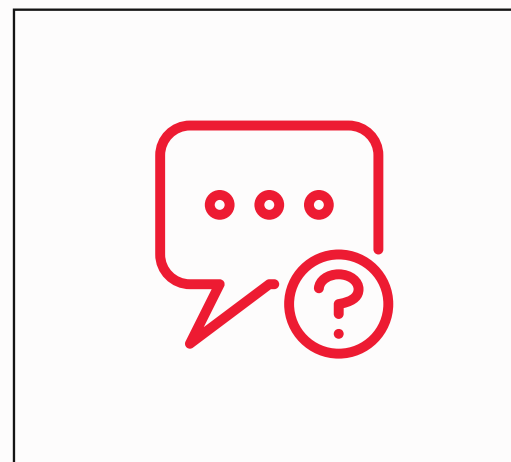
Service Tool Support

Should you need any further information on how to operate your sensor, or for any other enquiries, please contact us

Website www.sensoteq.com

Email support@sensoteq.com

Phone +44 (0) 28 9620 8453





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