

# SKF QuickCollect Sensor

CMDT 390



User Manual Part No. 15V-090-00055-100  
Revision A

**⚠ WARNING!** Read this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury, damage to the product or incorrect readings. Keep this manual in a safe location for future reference.



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### **Product Support – Contact Information**

*Product Support* – To request a [Return Authorisation](#), [Product Calibration](#) or [Product Support Plan](#), use the web page links for direct contact and support.

*Product Sales* – For customer support or information on purchasing condition monitoring products, contact your [local SKF sales office](#).

### **General Product Information**

For general product information (i.e. product data sheets, accessories catalogue, etc.), visit the [Condition Monitoring Products](#) page at SKF.com and select the appropriate product link.

### **Technical Support Group**


Discuss/review issues of specific interest with maintenance and reliability specialists from around the world at the [SKF Knowledge Centre](#).

For technical support when troubleshooting product installation, troubleshooting product performance, etc., use our [technical support](#) web page to contact one of our Technical Support Groups.

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# 1

## Introduction

### Safety Messages

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**⚠ WARNING!** *Your safety is extremely important. Read and follow all warnings in this document before handling and operating the equipment. Failure to observe the safety warnings may result in personal injury and/or damage to the equipment and data.*

**WARNING!** - Warning messages are used to alert you to an operating procedure, practice, condition or statement that must be strictly observed to prevent equipment damage or destruction, or corruption to or loss of data.

**IMPORTANT:** Important messages means that there is a risk of product or property damage if the instruction is not heeded.

### Personnel Safety

Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.

Do not overreach. Maintain proper footing and balance at all times to enable better control of the device during unexpected situations.

Use safety equipment. Always wear eye protection. Non-skid safety shoes, hard hat or hearing protection must be used in the appropriate settings.

Do not repair or adjust energised equipment alone, under any circumstances. Someone capable of providing first aid must always be present for your safety.

To work on or near high-voltage equipment, you should be familiar with approved industrial first-aid methods.

Always obtain first aid or medical attention immediately after sustaining an injury. Never neglect an injury, no matter how superficial it seems.

### Device Safety

Devices must only be serviced by qualified SKF repair personnel.

Use only accessories recommended or provided by SKF or the manufacturer.

### Energised equipment

Never work on energised equipment unless authorised by a responsible authority. Energised electrical equipment is dangerous. Electric shocks from energised equipment can be fatal. If you must perform authorised emergency work on energised equipment, be sure that you comply entirely with approved safety regulations.



## No Submersion/Immersion

This equipment is IP67-rated. It is dust-tight and resistant to accidental immersion in liquid up to a depth of 1 m (39.37 in.) for up to 30 minutes. If the instrument is subjected to more extreme conditions, this may result in adverse operation.

## Avoiding Damage and Injury

To avoid costly damage to the instrument or injury caused by the instrument falling, place the instrument on a solid stable surface when not in use and do not place any heavy objects on it.

Use a damp, clean cloth for cleaning. Do not use cleaning fluids, abrasives or aerosols. These might cause damage, fire or electrical shock.

Do not open the device cover in a hazardous area or in locations where contact with water or other contaminants may occur.

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## About This Manual

This manual provides information on the setup and use of the *SKF QuickCollect Sensor Bluetooth®* instrument (part no. CMDT 390). In this manual, the sensor instrument is commonly referred to as *the QuickCollect sensor*, or just *the sensor*.

Please refer to the relevant user manual to use the QuickCollect sensor within a DataCollect question:

- For iOS devices, refer to *DataCollect CMDT 3900 iOS User Manual* P/N 15V-090-00053- Chapter Completing Standalone Collections.
- For Android devices, refer to *DataCollect CMDT 3900 Android User Manual* P/N 15V-090-00052-100 Chapter Completing Standalone Collections.

As you use this manual, you will discover certain conventions used:

**Bold** type is used to indicate text that appears in a menu, window or dialogue box.

*Italics* are used to emphasise important information.

➤ is used to indicate notes to the reader.

Step-by-step procedures are sequenced using bullet points, •.



## Technical Support

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If you have questions regarding the installation or operation of your SKF product, please visit the self-help portal before contacting the help desk to see if the answer has already been published:

*Technical Support Self-help Portal:* [www.skf.com/cm/tsg](http://www.skf.com/cm/tsg)

If further assistance is needed, please submit a support request by clicking on the SUPPORT tab, and one of our support engineers will contact you shortly.

The technical support team can be reached during normal business hours (7 am to 4 pm local time) by phone, e-mail or live chat:

- *Customers in Europe, Middle East and Africa:*  
Phone: +46 31 337 6500  
E-Mail: [TSG-EMEA@skf.com](mailto:TSG-EMEA@skf.com)  
Chat: [www.skf.com/cm/tsg](http://www.skf.com/cm/tsg)
- *Customers in all other locations:*  
Phone: 1-858-496-3627 or toll-free (USA) 1-800-523-7514  
E-Mail: [TSG-Americas@skf.com](mailto:TSG-Americas@skf.com)  
Chat: [www.skf.com/cm/tsg](http://www.skf.com/cm/tsg)

**Note:** Standard technical support will be provided at no cost for products or software covered by an SKF Product Support Plan (PSP), wherever applicable. Many SKF Machine Health products include limited technical support for the first 180 days after purchase. Support obtained after 180 days or without PSP coverage will be subject to a per-incident fee. Contact the technical support team for more information.







## SKF QuickCollect Sensor

### SKF QuickCollect Sensor System Overview

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The SKF QuickCollect sensor is part of the SKF Enlight Collect system, which also includes the QuickCollect app and the DataCollect app. This system is used by service, reliability, operations or maintenance personnel as part of a walk-around data collection program. With one wireless vibration and temperature sensor that can be connected to tablets, smart phones and smart watches, the user can monitor hundreds of assets per day and thousands of assets per month. The data can be analysed on the spot in real time or sent to the cloud for analysis.



Figure 2 - 1.  
On the job with an Enlight QuickCollect system.

In brief, a typical operation would include the following steps:

- Carry the QuickCollect sensor and smart device out to the machine with rotating parts' (such as a pump or motor).
- Mount the sensor on the bearing housing using the magnet mount.
- Initiate the sensor measurement wirelessly (using **Bluetooth®** Low Energy, or BLE) using either the SKF QuickCollect or DataCollect app running on a smart device.
- After taking the measurement, remove the sensor and proceed to the next machine or measurement location to continue taking measurements.
- When complete, return the sensor to its charging power supply via the cable.





Figure 2 - 2.  
A portable data collection system.

The QuickCollect sensor uses **Bluetooth®** low-energy version 4.2 wireless technology to communicate with off-the-shelf iOS and Android devices using the SKF QuickCollect or DataCollect application for capturing overall machine vibration (velocity and enveloped acceleration), time waveform and temperature data.

The QuickCollect sensor features wireless data transfer, a rugged design and a rechargeable battery. The sensor increases operator safety by eliminating the hazards and inconvenience of cumbersome cables to provide a safe, fast and easy-to-use system for performing front-line machinery condition monitoring. The data collected and transferred to SKF's QuickCollect or DataCollect application is displayed on the screen with easy-to-identify colour-coded bars that indicate alarm status: green for acceptable, yellow for alert and red for danger.





Figure 2 - 3.  
QuickCollect sensor.



Figure 2 - 4.  
QuickCollect application for mobile devices.

Your QuickCollect sensor kit contains the following components:

- 1 QuickCollect sensor (P/N CMDT 390)
- 1 CMAC 8007 power supply with international plugs
- 1 MM-8 magnet



## Machine Health Monitoring

### Vibration

Most machinery problems cause excessive vibration. Mechanical looseness, imbalance, soft foundation, misalignment, rotor bow, bearing wear, gear defects, or lost rotor vanes can all be detected using vibration measurements.

The QuickCollect sensor is capable of performing two vibration measurements and the temperature measurement simultaneously. When performing measurements, the sensor's vibration input signal is processed to produce two very meaningful vibration measurements for each measurement point.

- **Velocity** – Vibration velocity is considered the “general purpose” vibration measurement for detecting machinery problems. This is because most machinery problems generate low to mid-frequency sinusoidal-type vibration signals (problems such as imbalance, misalignment, bent shaft and looseness), and velocity measurements focus on detecting sinusoidal vibration signals occurring in this frequency range. ISO standards provide general guidelines for vibration severity using velocity criteria.
- **Enveloped acceleration** – Rolling element bearing faults cause low-amplitude impulsive -type vibration signals at a regular rate of repetition. When monitored using velocity measurements, these low-energy impulsive signals are typically lost in surrounding machinery vibration noise caused by imbalance, misalignment, looseness, etc. Enveloped acceleration measurements filter out surrounding machine vibration noise and enhance the impulsive nature of repetitive rolling element bearing or gear fault vibration signals, allowing much earlier and accurate bearing fault detection. Not used for overall machine vibration monitoring, enveloped acceleration measurements ensure consistent early detection of bearing and gear-type defects.



## Temperature

Temperature measurement is a useful indicator of mechanical condition or the load applied to a specific component. As a bearing or its lubrication fails, friction causes its temperature to rise. Measuring temperature changes within the bearing allows you to recognise problems early and to schedule maintenance before a serious and expensive failure occurs.

The sensor's opening for taking temperature measurements is located next to the magnet stud and has a range of 4 cm from the machine. The infra-red (IR) sensor quickly determines the temperature of the equipment being measured.



Figure 2-5.  
IR sensor location.



## Controls and Functions

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Figure 2-6.  
Sensor controls and LEDs.

- ① Power button
- ② Battery LED
- ③ Communication LED
- ④ All-purpose check LED

**Power button** – Powers the sensor on and off. When the sensor is off, pressing the power button will immediately turn on the sensor.

When powered on, a 15-minute inactivity timer will start. If no communication is detected between the sensor and QuickCollect or DataCollect within 15 minutes, the sensor will automatically power off.

When powered on, any button press of less than 3 seconds will reset the inactivity timer.

When powered on, a press and hold of greater than 3 seconds will power off the sensor.

**Battery LED** – (Green, Red)

Green – Indicates battery is fully charged when connected to the power source.

Red, solid – Indicates battery is charging, when connected to the power source.

Red, slow blinking – Indicates low battery. Remaining life is about 15% of fully charged level (TBD).

Red, fast blinking – Indicates battery is too low to keep the sensor powered on; the device will power itself off.



**Communication LED – (Green, Red)**

Off – Indicates the sensor is powered off.

Green, blinking – Indicates the sensor is powered on and not connected to an application.

Green, solid – Indicates the sensor is powered on and connected to an application.

Toggling between green and red – Firmware update in progress.

**All-purpose check LED – (Green, Red, Amber)**

Red, solid – Indicates an error condition: factory state, no serial number, uncalibrated.

Red, fast blinking – Indicates a critical error.



## Sensor Specifications

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### Environmental and Regulatory Specifications

Temperature range	Non-hazardous areas: -20 to +60°C Hazardous areas: -20 to +60°C Charging: 0 to +40°C
Humidity	95% non-condensing
IP rating	IP67, Dust and water ingress protection testing standard.
Hazardous approval (North America)	Class 1 Division 1 Group A, B, C, D certification Class 1 Zone 1 (pending)
Hazardous approval (Europe)	ATEX Zone 1 certification (pending) Area = II (non-mining) Category = 2G (Zone 1) Exib IIC T4
Radio approvals	Europe (CE), USA (FCC), Canada (IC)
CE mark	CE-approved

### Measurement Range

Overall velocity:	10 Hz to 1 kHz up to 55 mm/s
Bearing condition:	SKF patented Enveloped acceleration up to 20 gE
FFT maximum frequency:	Velocity 1 kHz, Enveloped Acceleration 2 kHz
Lines of resolution:	Velocity 400, Enveloped acceleration 800
Detection type:	Velocity RMS, Enveloped acceleration True Peak-to-Peak

### Power

Main power	Rechargeable lithium battery, 3.7 V DC, 0.14 A
Battery lifetime	Eight hours with normal usage
MAINS supply voltage, charger	Varies up to $\pm 10\%$ of the nominal voltage TRANSIENT OVERVOLTAGE CATEGORY II; POLLUTION DEGREE 2
Charger	Input 5 V DC $\pm 10\%$ , 1 A
AC adapter	Input 100 to 240 V DC, 0.4 A, 47 to 63 Hz Output 5 V DC, 1.6 A

### Environmental

Storage temperature	-20 to +45°C (-5 to +115°F) for less than one month -20 to +35°C (-5 to +95°F) for less than six months
Operating temperature, battery	0 to +40°C (32 to +105°F) for charging -20 to +60°C (-5 to +140°F) for discharging
Operating temperature, charger	0 to +40°C (32 to +105°F)
Altitude	Up to 2,000 m (6,560 ft)
Humidity	95% non-condensing

### Physical

Case	Water and dust resistant (IP67)
Drop test with boot	1.8 m (6 ft) to concrete
Dimensions	45 x 45 x 135 mm (1.8 x 1.8 x 5.3 in.)
	200 g (7 oz.)



## Using the QuickCollect Sensor

### Preparing the Sensor for Use

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#### Charging the Battery

***The battery charger may only be connected to the equipment in a safe area.***

The sensor is equipped with an internal lithium ion battery. Prior to using the sensor for the first time, you must use the power supply provided to fully charge the lithium battery.

The sensor's only external connector is the 6-pin "back" connector. The connector provides charging power. The connector is IP67-rated and the energy available via this connector is limited.



Figure 3 – 1.  
External sensor connector.

#### To charge the battery:

- Connect the charger to an AC outlet (if necessary, use regional AC outlet adapters).
- Align, connect and tighten the charger's cable to the sensor's external 6-pin connector.
- The battery LED will display red when the battery is charging. The battery will be fully charged after approximately four hours. The battery LED will display green when the battery is fully charged.

Once the battery is fully charged, the sensor is ready for operation. With normal use, the estimated battery life is eight hours. The battery LED will blink red when the power level is low. If the battery level becomes too low, the sensor will automatically power itself off to prevent battery damage.

- Connect the sensor to its power supply/battery charger whenever you do not intend to resume operations in the immediate future.



## Measurement Guidelines

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### Performing Vibration Measurements

Measurements are typically performed with the machine operating under normal conditions. For example, when the machinery has reached its normal operating temperature and is running under its normal rated condition (at rated voltage, flow, pressure and load). For machines with varying speeds or loads, perform measurements at all extreme rating conditions, as well as at selected conditions within these limits.

Place the sensor's magnet on the machine's measurement point. When placing the sensor on the machine, generally avoid greasy, oily, or wet surfaces, housing splits, and structural gaps. Select the best measurement point (specifically avoid unloaded bearing zones), and be consistent in terms of sensor position, sensor angle, and contact pressure.

If possible, choose a flat surface in the bearing's load zone. Measurements should be taken at the same precise location (moving the probe only a few inches can produce drastically different vibration readings). To ensure measurements are taken in the exact same spot, mark the measurement point with permanent ink.

Proper hand-held sensor technique is vital to the accuracy of measurements. It is critical that you perform consistent readings.

### Performing Infrared Temperature Measurements

To perform accurate non-contact infrared temperature measurements, bear in mind infrared sensor cleanliness. The infrared sensor has a small opening. Dirt, grease or oil may enter the opening and cause inaccurate temperature measurements. If necessary, clean the opening using alcohol and cotton buds.

## How to Use the Sensor within a DataCollect Question

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Please refer to the SKF DataCollect user manual for details.



## Using the QuickCollect App

### Downloading, Installing, and Launching the QuickCollect App

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You can download and install the app via the Apple App Store. After download and installation, the QuickCollect app will be available on your device.

The QuickCollect app is compatible with iOS 9.0 and later.

#### To launch QuickCollect for the first time:

- Tap the SKF **QuickCollect** icon on your device. The welcome screen will appear.

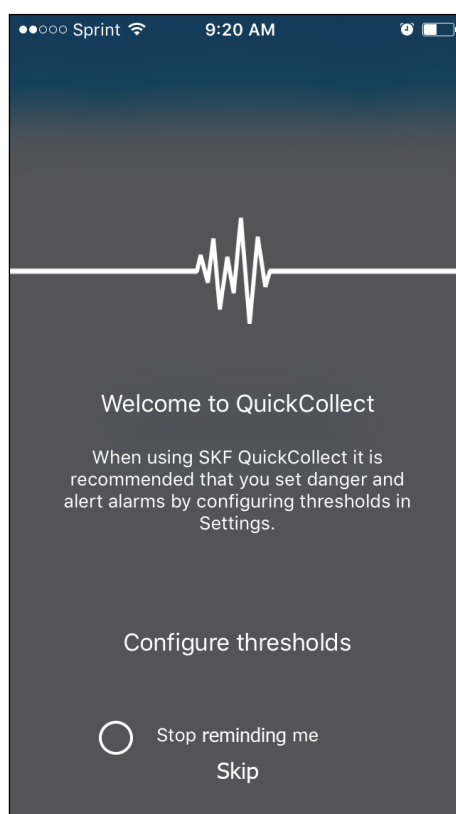


Figure 4 – 1.  
QuickCollect app welcome screen.

- Tap **Configure thresholds** to jump directly to the Settings table and configure your measurement danger and alert alarm thresholds, or tap **Skip** to navigate to the app's home screen.

Tap to select **Stop reminding me** to skip this welcome screen when you launch the app in the future.



## Preparing to Take Measurements

### To configure alarm thresholds:

- Navigate to the **Settings** table, either from the welcome screen as described above or by tapping the settings icon in the top right of the app's home screen.

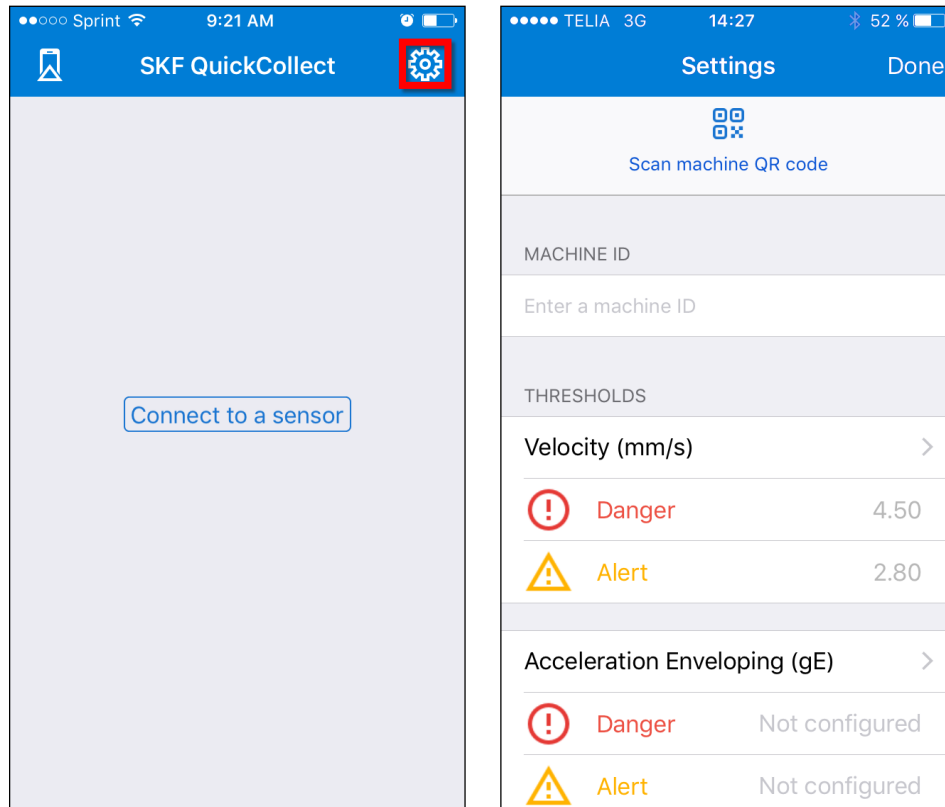


Figure 4 – 2.  
Navigating to the Settings table from the home screen.

- Tap the QR icon to scan a machine's QR code in order to automatically collect information and values for thresholds for the machine.

OR

- Tap within the **MACHINE ID** text box to bring up a keyboard, and enter unique identifying information for the machine that your sensor will be measuring.



- Tap the **THRESHOLDS: Velocity** field to navigate to the **Velocity** table.

Velocity		Done
✓ Large machine		i
Medium-sized machine		i
✓ Rigid		
Flexible		
Enter machine size and select rigid or flexible to calculate ISO velocity thresholds.		
! Danger	7.10	
! Alert	4.50	

Figure 4 – 3.  
Velocity table.

- Make selections and/or enter values for **Velocity** measurement thresholds:
 

Select whether the machine that your sensor will be measuring is a **Large machine** or a **Medium-sized machine** and whether it is **Rigid** or **Flexible**. The app will automatically calculate the ISO velocity thresholds for such a machine.

  - Tap either information icon to learn what constitutes a **Large machine** as opposed to a **Medium-sized machine**.

Alternatively, tap within the **Danger** and/or the **Alert** field to bring up a keyboard and enter a threshold value. You may enter user-defined levels.
- Tap **Done** to set all configurations and return to the **Settings** table.



- Tap the **THRESHOLDS: Acceleration Enveloping** field to navigate to the **Acceleration Enveloping** table.

Acceleration Enveloping		Done
BEARING BORE SIZE (MM)		
100		
ROTATIONAL SPEED (RPM)		
300		
!	Danger	1.66
!	Alert	0.55
Enter bearing bore size and rotational speed to calculate Acceleration Enveloping thresholds.		
BEARING DESIGNATION		
Bearing designation (part number)		
This information will be included in any email reports.		

Figure 4 – 4.  
Acceleration Enveloping table.

- Make selections and/or enter values for **Acceleration Enveloping** measurement thresholds and other information:
 

Tap within the **BEARING BORE SIZE** text box to bring up a keyboard, and enter the bore size of the bearing that your sensor will be measuring according to the units currently designated (millimetres or inches, indicated next to field label).

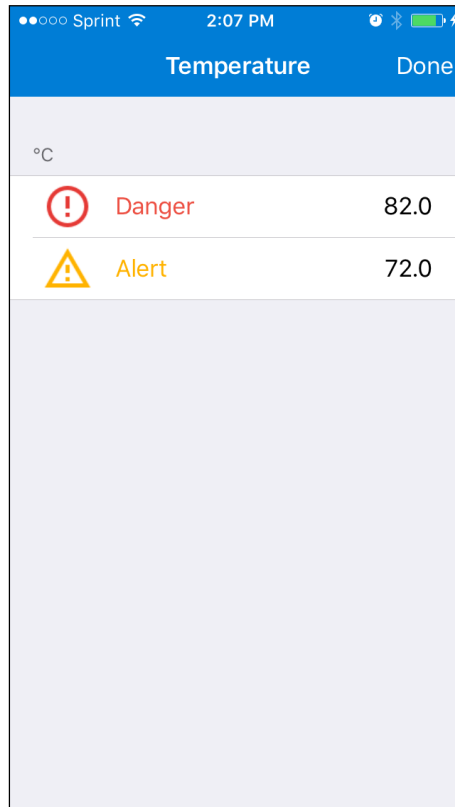
Tap within the **ROTATIONAL SPEED** text box to bring up a keyboard, and enter the bearing rotational speed, in RPM, at which your sensor will be measuring.

The app automatically calculates the acceleration enveloping thresholds for the bearing at the speed indicated.

Tap within the **BEARING DESIGNATION** text box to bring up a keyboard, and enter the bearing's part number for reference purposes.
- Tap **Done** to set all configurations and return to the **Settings** table.



- Tap the **THRESHOLDS: Temperature** field to navigate to the **Temperature** table.



Temperature		Done
°C		
!	Danger	82.0
⚠	Alert	72.0

Figure 4 – 5.  
Temperature table.

- Enter values for **Temperature** measurement thresholds:  
Tap within the **Danger** and/or the **Alert** field to bring up a keyboard, and enter a threshold value according to the units currently designated (degrees Celsius or degrees Fahrenheit, indicated above these fields).
- Tap **Done** to set all configurations and return to the **Settings** table.



- Below the **THRESHOLDS** field, tap to select the units of measurement system that you wish to use for all measurements: **Metric** or **Imperial**.

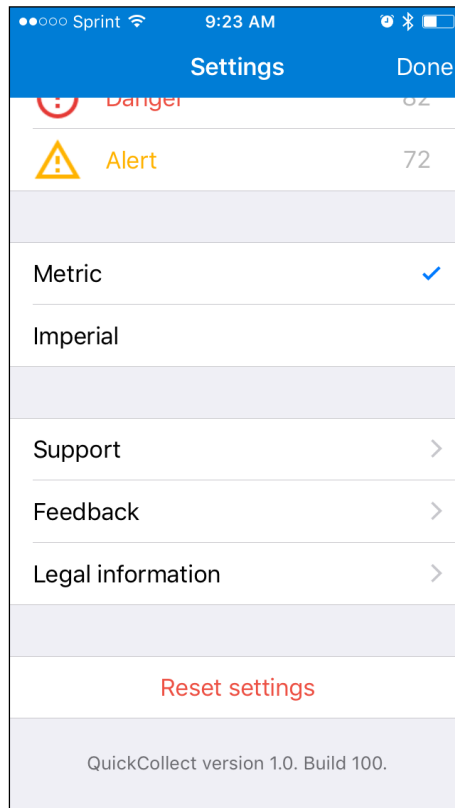


Figure 4 – 6.  
Settings table, scrolled to bottom.

- Tap the **Support** field to start an email to IT Services for the purpose of obtaining support for an application issue.
- Tap the **Feedback** field to start an email to IT Services for the purpose of providing application feedback.
- Tap the **Legal information** field to review QuickCollect terms and conditions (including warranty disclaimer and limitation of liability, copyright, trademarks and patents, and change in information), privacy policy, ownership information and more.
- Tap **Reset settings** to reset all **Settings** configurations to their defaults.
- Tap **Done** to return to the home screen.



## Taking Measurements

To connect to a sensor and obtain measurement data:

**IMPORTANT!** Your phone's Bluetooth function must be on to communicate with a QuickCollect sensor.

- Navigate to the **Devices** table by tapping **Connect to a sensor** in the middle of the home screen or the devices icon in the top left of the screen.

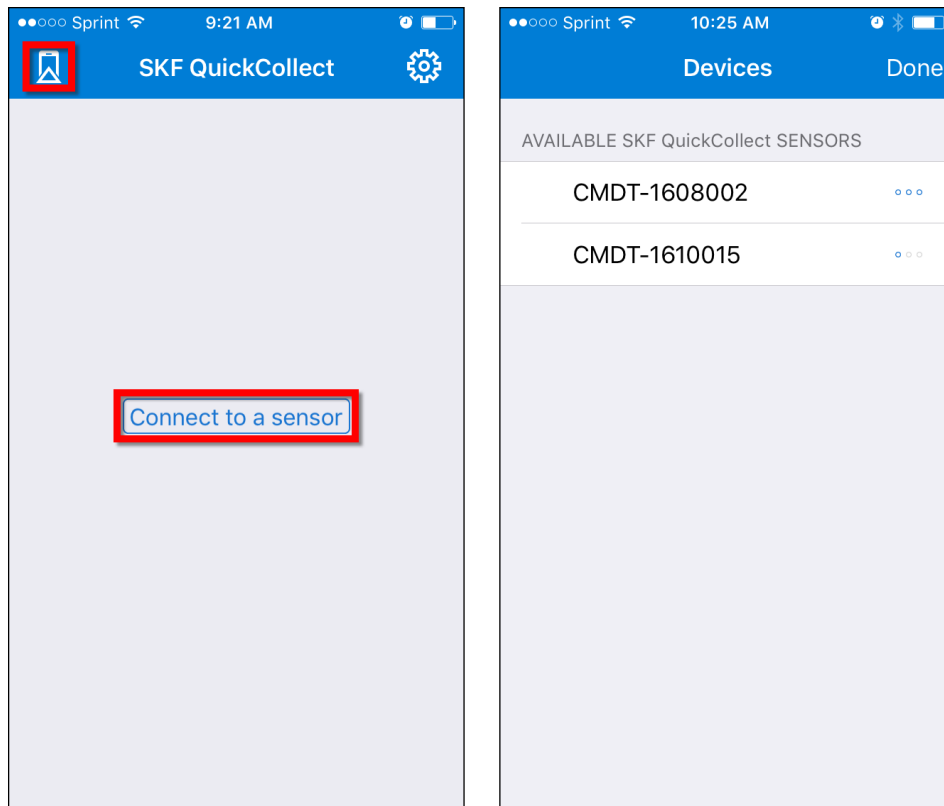


Figure 4 – 7.  
Navigating to the Devices table from the home screen.

The names of the available QuickCollect sensors will appear in the **Devices** table with their signal strengths indicated to the right.

- Tap to select the desired sensor.
  - If your device's Bluetooth feature is not on, you will receive a prompt to turn it on. Tap **Settings** to navigate to your device's Settings for this purpose.



Once you have successfully connected to the sensor, a checkmark and an information icon will display next to that sensor.

- If you wish to see details about the sensor, tap on the information icon.

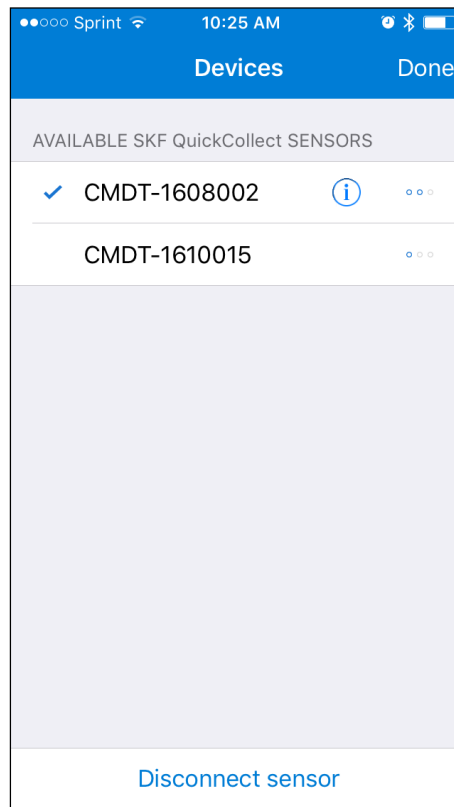


Figure 4 – 8.  
Devices table with connected sensor.

- To disconnect from the connected sensor, tap **Disconnect sensor** or tap to select a different sensor.



- When you are ready to continue with the selected sensor, tap **Done** at the top of the **Devices** table. The home screen will then be displayed with Live Readings.

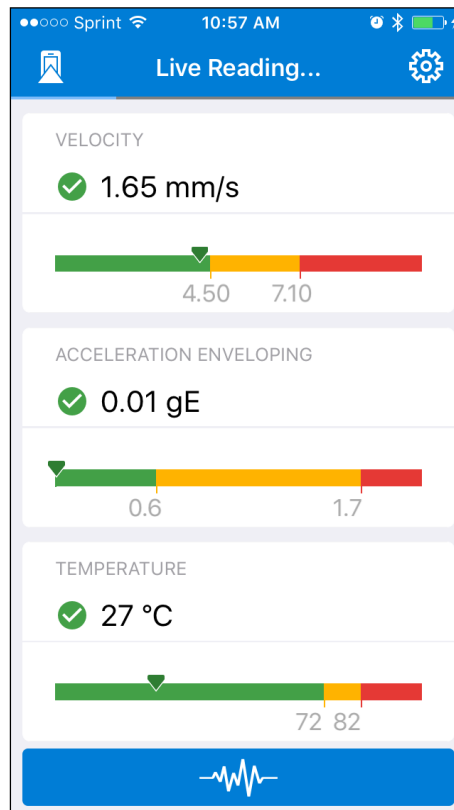


Figure 4 – 9.  
Home screen with live readings.

Each reading displays a current overall measurement, including alarm status, and alert and danger thresholds.

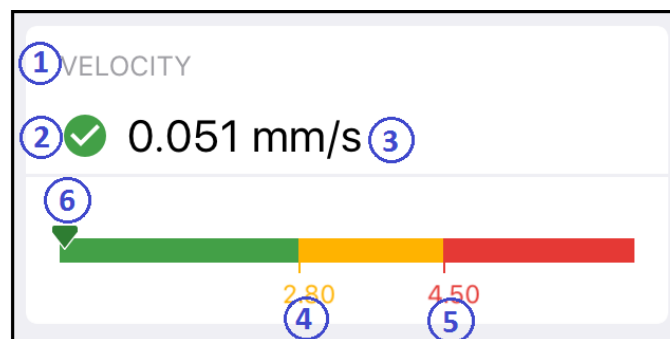


Figure 4 – 10.  
Live reading detail.

- |                     |                     |
|---------------------|---------------------|
| 1. Reading category | 4. Alert threshold  |
| 2. Alarm status     | 5. Danger threshold |
| 3. Overall value    | 6. Current reading  |



## Over-the-Air Firmware Updates (OTA)

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### To update the firmware:

- Tap the information icon next to the sensor.
  - **Firmware updates (OTA)** will be visible only if there is more recent firmware available than what is already installed, and if the battery percentage is over 50%.



Figure 4 – 11.  
Over-the-air firmware updates available.



- When you tap **Firmware updates**, the **Firmware** screen will display current versions of and available updates for the Core and Bluetooth firmware.
- Tap **Update Firmware** to download updates.
  - If there are updates available for both the Core and the Bluetooth, both will be downloaded.
  - The time for downloading varies between 2 and 15 minutes.
  - When downloading, the sensor should be left on and not connected to the charger.

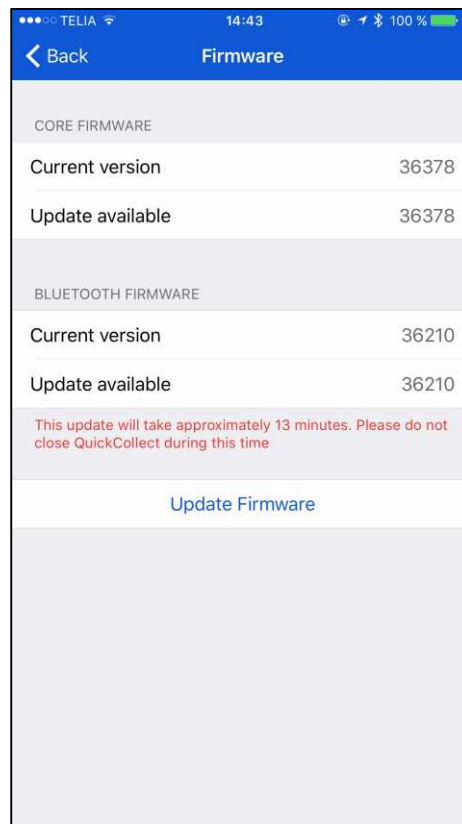


Figure 4 – 12.  
Firmware screen



When downloading, the process status will be displayed as a percentage.

- If an error occurs or if downloading stops, an error message will be displayed.

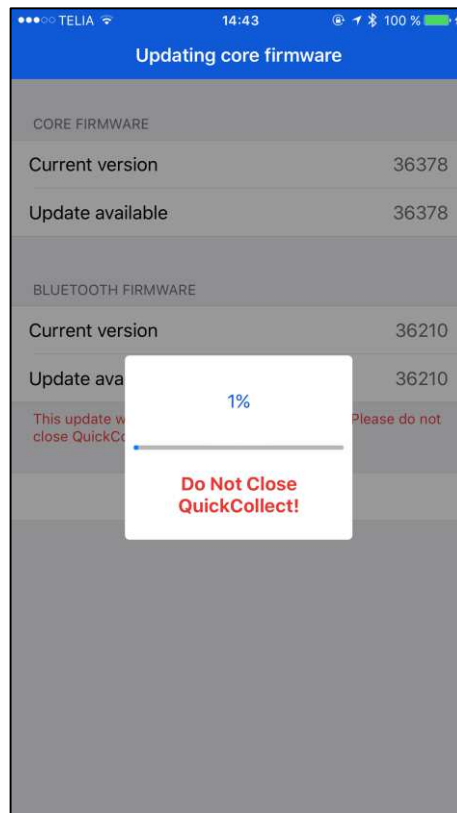


Figure 4 – 13.  
Download view.



When the download is complete, the process status will be displayed as “Update Succeeded!”

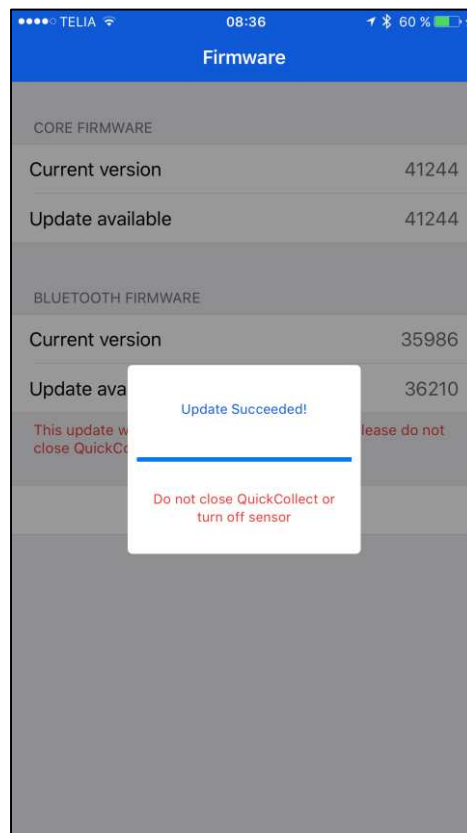


Figure 4 – 14.  
Download view.



## Viewing Graphical Measurement Results

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To view measurement data plots:

- Tap the generate plot button at the bottom of the home screen.



Figure 4 – 15.  
Generate plot button.

QuickCollect collects data and then processes this data to calculate velocity and acceleration envelope. The **Measurement Results** screen will appear with two **View Spectrum** options.

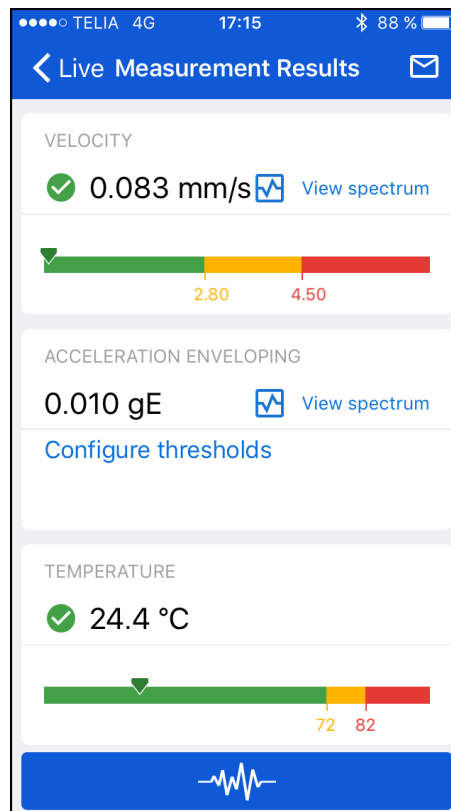


Figure 4 – 16.  
Measurement results screen with view spectrum options.



- Tap the appropriate **View Spectrum** button. A plot screen will appear.

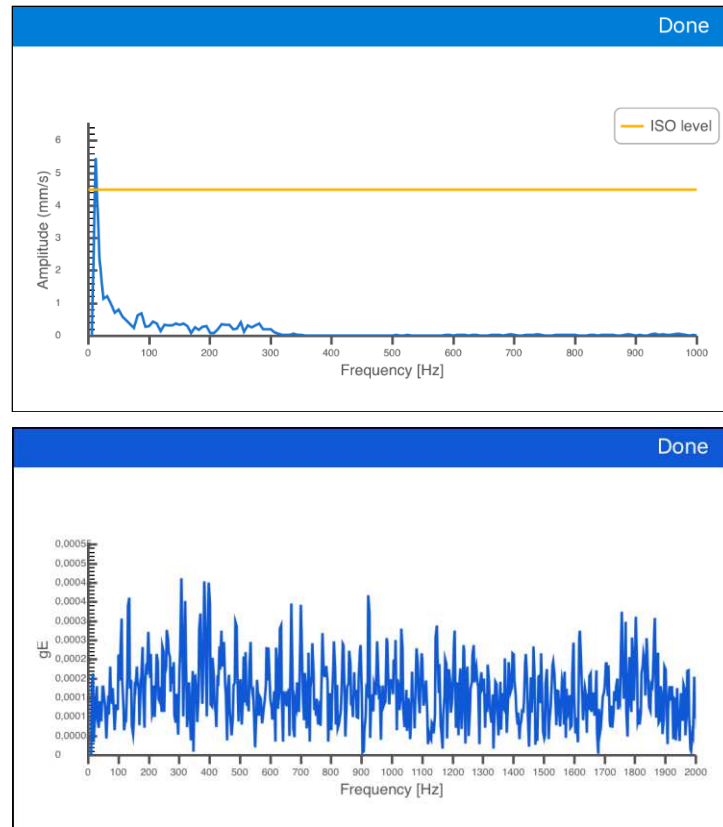


Figure 4 – 17.

Top: velocity spectrum. Bottom: acceleration enveloping spectrum.

- Review the plot data and tap **Done** to return to the **Measurement Results** screen.

#### To return to Live Reading mode:

- Tap **Live Reading** at the top of the Measurement Results screen. The home screen will reload in **Live Reading...** mode.
- Repeat all the above steps as necessary to configure, record and report velocity, acceleration enveloping and temperature measurements.



## Reporting Measurement Results

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### To send an email report of the measurement results:

- Tap the email icon at the top right of the **Measurement Results** screen. QuickCollect will generate and populate an email with the current measurement's results via your device's email application.

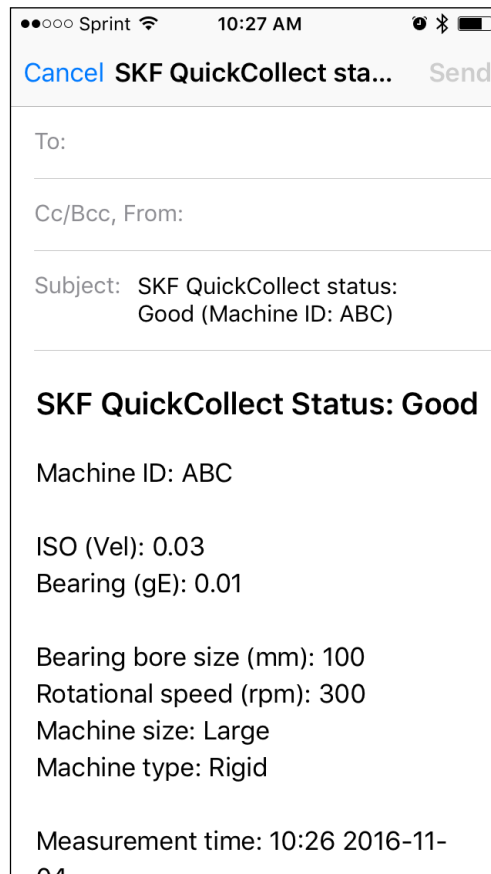


Figure 4 – 18.  
Measurement results email.

- Tap within the **To:** field to bring up a keyboard and enter recipient email addresses.
- Tap **Send** to send the report and return to the Measurement Results screen.



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