

SKF QuickCollect sensor

Machine monitoring made easy



SKF QuickCollect sensor

The SKF QuickCollect sensor is an easy to use bluetooth enabled handheld sensor that connects to iOS and Android apps on your tablet, smart phone or smart watch (iOS only). Combining vibration and temperature sensing, overall data can be viewed on the spot in real time or pushed to the cloud for future analysis.

This SKF QuickCollect sensor is ideal for service, reliability, operations, or maintenance personnel as part of a walk around data collection program.

Features

- Velocity, acceleration enveloping, and temperature measurements
- Bluetooth communication with tablets, smart phones, smart watches
- Easy to use sensor and apps
- Easy to understand indications of machine condition
- Rugged industrial design Drop test 1.8 m (6 ft.), water and dust resistant (IP65)
- Rechargeable lithium battery (full working day in normal usage)
- Option to connect, store and share data on the Cloud
- Option to connect directly to SKF Remote Diagnostic Services
- Apps for both iOS and Android devices

Benefits

- Gets you started quickly
- Can be used with minimum training and experience
- Identify developing rotating machinery issues before they become problems
- Connect directly to expert advice when you need it
- Expand functionality via apps to grow and compliment your existing maintenance program

Controls and indicators

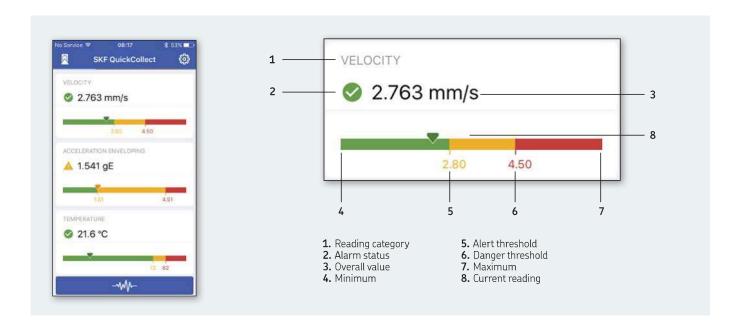


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Measurement displays

Measurements taken by the sensor are shown on your mobile device, which displays velocity, enveloped acceleration and temperature as shown below:

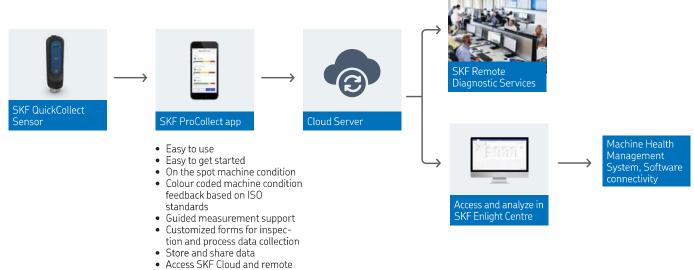
Each reading displays a current overall measurement, including alarm status, minimum and maximum values, and alert and danger thresholds.



SKF Enlight ProCollect System

The SKF QuickCollect sensor can be used with the SKF QuickCollect app or SKF Pro-Collect app which provides additional functionality, including the ability to store and share data via the SKF cloud, and to directly access SKF Remote Diagnostic Services.

SKF Enlight ProCollect



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SKF diagnostic experts

Sensor specifications

Environmental, regulatory and physical

Operating temperature range

–20 to +60 °C (–5 to +140 °F) –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 Storage temperature range

The above temperature/time limits are to avoid excessive self-discharge of the battery. 0 to 40 °C (32 to 105 °F)

Charging temperature,

range (sensor/charger)

Humidity 95% non-condensing Altitude Up to 2 000 m (6 560 ft)

1.8 m (6 ft) in accordance with MIL-STD-810G Drop test

Sensor IP rating IP65 (Dust and water ingress protection testing standard.)

Europe (CE), USA (FCC), Canada (IC) Radio approvals CE Mark CE-approved

45 x 45 x 135 mm (1.8 x 1.8 x 5.3 in.) **Dimensions**

200 g (7 oz) Mass

Power

Sensor power source Rechargeable lithium battery, 3.7 V DC. 0.14 Ah

Battery lifetime A full working day under normal usage reducing to half a working day when an external

sensor is being used.

Input 100 to 240 V AC, 0.4 A, 47 to 63 Hz Charger

Measurement and analysis functions

Internal sensor ±5%: 5 Hz to 3 000 Hz ±10%: 3 Hz to 5 000 Hz frequency range

±3 dB: 1.4 Hz to 10 000 Hz

The response is attenuating (3 dB down) at both frequencies

10 Hz to 1 kHz up to 55 mm/s RMS Overall velocity SKF patented Enveloped acceleration Bearing condition

gE Bands 2 and 3, up to 20 gE True Peak-to-Peak

Temperature Built in infrared (IR) sensor

Capable of measuring outside the QuickCollect operating temperature range and up to

100 °C for short periods.

Acceleration (g), Enveloped acceleration (gE) Vibration Time Waveforms

Sample rates: 256 Hz to 25.6 kHz Sample lengths: 256 to 8 192 samples

Acceleration (g), Velocity (mm/s), Enveloped acceleration (gE) Spectrum/FFT

Maximum frequency: 100 Hz to 10 kHz Resolution: 100 to 3 200 lines

Note that the full measurement and analysis capability shown above is only available for systems using the ProCollect app and

Enlight Centre.

Connection cable

Vibration measurements apply equally to either the internal or an external sensor.

External sensor support

2-wire, constant current, 100 mV/g accelerometers External sensor types

Supports ICP accelerometers. Provides 3 mA minimum. SKF CMAC 8010 (IEPE). See also: External sensor setup.

Ordering Information

Standard kits Hazardous area kits

CMDT 391-K-SL CMDT 391-EX-K-SL CMDT 391 sensor CMDT 391 Ex sensor CMAC 109 magnet CMAC 109 magnet CMAC 8004 power supply CMAC 8007 power supply

CMDT 391-PRO-K-SL CMDT 391-EX-PRO-K-SL As CMDT 391-K-SL plus: As CMDT 391-EX-K-SL plus: CMAC 8010 accelerometer cable CMAC 8010-EX accelerometer cable CMSS 2100 accelerometer CMSS 786A-IS accelerometer CMAC 3715 BNC adaptor CMAC 3715 BNC adaptor CMAC 8011 carry case CMAC 8011 carry case

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