

SKF QuickCollect Sensor

讓監測轉動設備變得容易 – SKF EQC 感測器



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The SKF QuickCollect sensor is an easy to use bluetooth enabled handheld sensor that connects to apps on your tablet, smart phone or smart watch. 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.

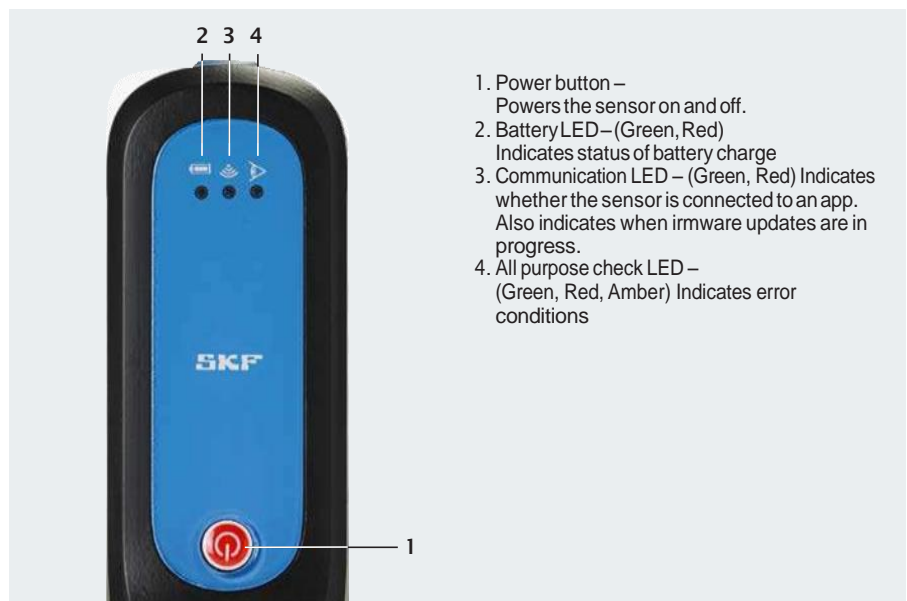
Features

- Velocity, acceleration enveloping, and temperature measurements (速度總值, 包絡加速度&溫度)
- Bluetooth communication with tablets, smart phones, smart watches (透過藍芽介面, 可連接多種平板, 智慧型手機)
- 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)
- Suitable for use in hazardous environments (ATEX Zone 1, Class 1, Div 1)
- Rechargeable lithium battery (8 hours normal usage)
- Option to connect, store and share data on the Cloud (選購的雲端資料儲存)
- Option to connect directly to SKF Remote Diagnostic Services (選購的 SKF 遠端診斷服務)

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

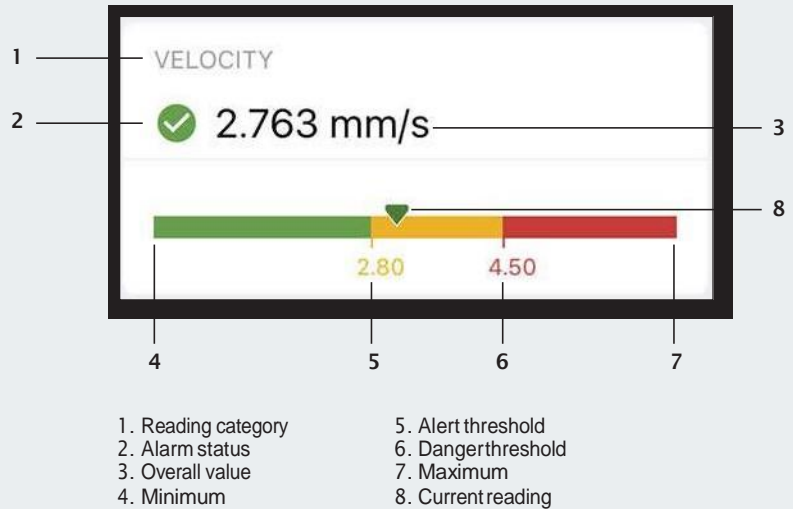
Controls and indicators



Measurement displays

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

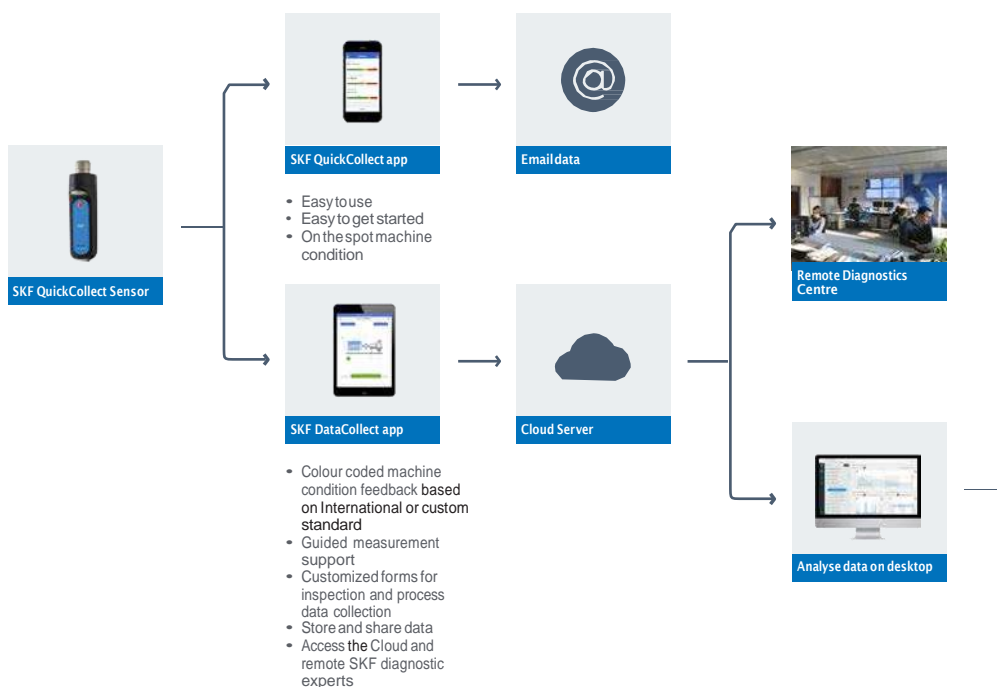
Each reading displays a current overall measurement, including alarm status, minimum and maximum values, and alert and danger thresholds.



SKF Enlight QuickCollect (EQC) System

The SKF QuickCollect sensor can be used with the SKF QuickCollect app, or with SKF DataCollect 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.



Technical specifications (技術規格)

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	IP 65, Dust and water ingress protection testing standard.
Hazardous approval (North America)	Class 1 Division 1 Group A, B, C, D certification
Hazardous approval (Europe)	Class 1 Zone 1 (pending) ATEX Zone 1 certification (pending) Area = II (non-mining) Category = 2G (Zone 1) Ex ib IIC T4
Radio Approvals	Europe (CE), USA (FCC), Canada (IC)
CE Mark	CE approved

Measurement range

Overalls (總值)	
Velocity:	10 Hz to 1 kHz up to 55 mm/s (振動總值)
Bearing condition:	SKF patented Envelope acceleration up to 20 gE (包絡加速度)
FFT	
Maximum Frequency:	Velocity 1 kHz, Enveloped Acceleration 2 kHz (速度頻寬固定在 1KHz, 包絡在 2KHz)
Lines of resolution:	Velocity 400, Enveloped acceleration 800 (速度解析條數 400 條, 包絡在 800 條)
Detection type:	Velocity RMS, Enveloped acceleration True Peak to Peak

Power

Main Power	Rechargeable lithium battery, 3,7 VDC, 0,14 A
Battery Lifetime	Eight hours with normal usage (正常使用狀況下可達八小時)
MAINS supply voltage, charger	Varies up to ±10% of the nominal voltage TRANSIENT OVERVOLTAGE CATEGORY II; POLLUTION DEGREE 2
Charger	Input 5 VDC ± 10%, 1 A
AC Adapter	Input 100 to 240 VDC, 0,4 A, 47 to 63 Hz Output 5 VDC, 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 (IP65) (IP65 的防塵防水等級)
Drop test	1,8 m (6 ft.) to concrete (1.8 米的落下測試級)
Dimensions	45 x 45 x 135 mm (1.8 x 1.8 x 5.3 in.)
Weight	200 g (7 oz.)