

SKF QuickCollectsensor

讓設備監測變得容易



SKF QuickCollect sensor

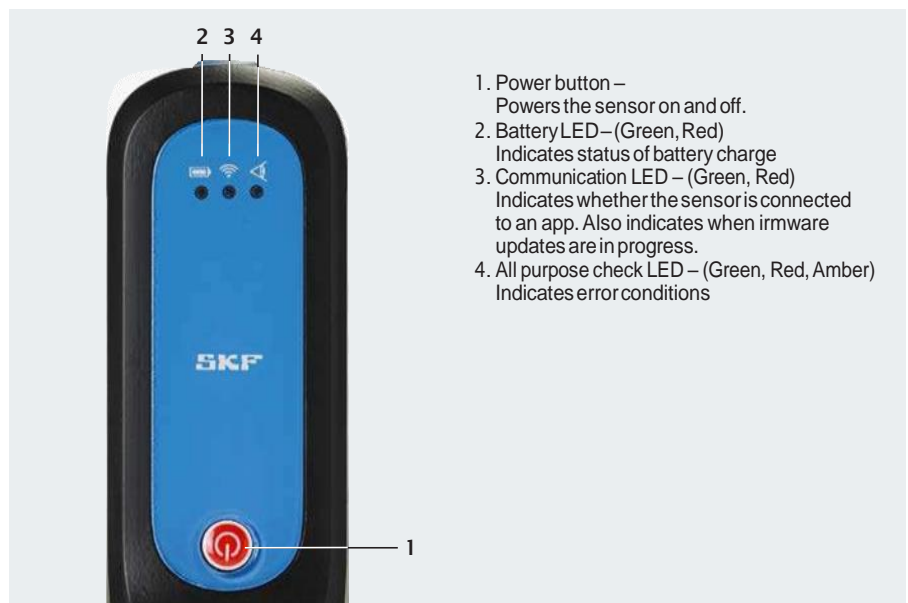
The SKF QuickCollect sensor is an easy to use bluetooth enabled handheld sensor that connects to iOS and Android apps on your tablet, smart phone or smart watch (iOS only). Combining vibration and temperature sensing, overall data can be viewed on the spot in real time or pushed to the cloud for future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

Controls and indicators



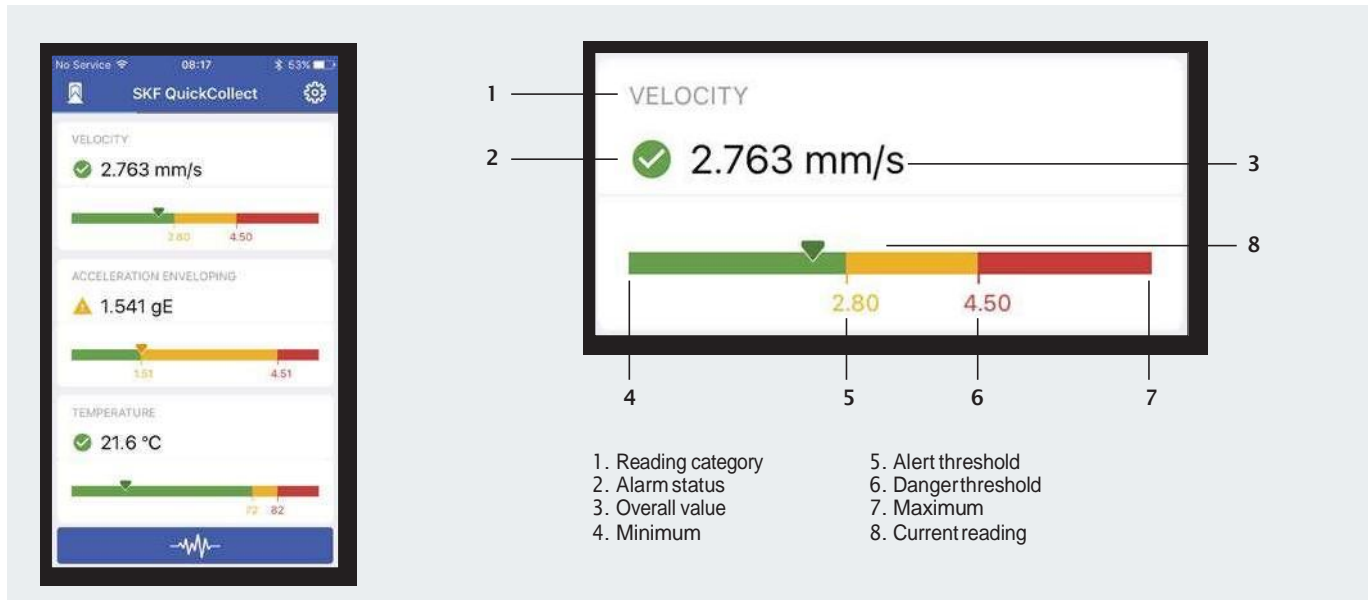
Benefits

- 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 (支援多款 SKF app, 請參照下列)
[SKF QuickCollect app](#) (免費)
[SKF Pulse app](#) (免費,由 SKF 平台提供診斷分析服務)
[SKF ProCollect app](#) (需搭配 訂閱式設備健康管理平台, SKF Enlight Centre)
[GoPlant app](#) (適合大型工廠巡檢作業)
(上述 app 部分會需要年費訂閱才能使用)

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

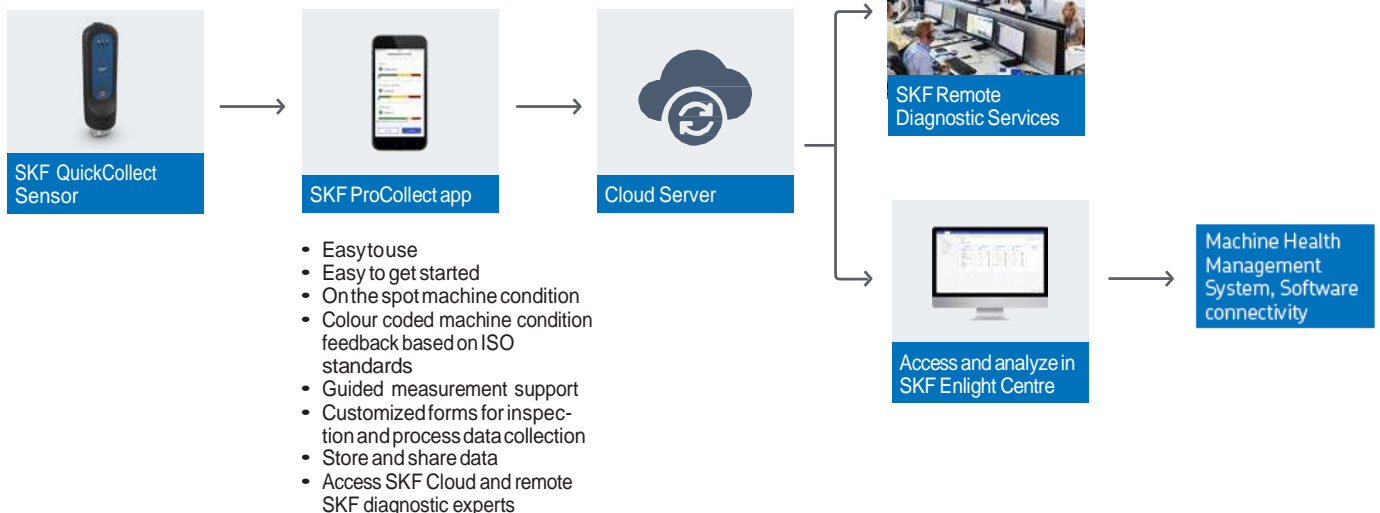
The SKF QuickCollect sensor can be used with the SKF QuickCollect app or SKF ProCollect app which provides additional functionality, including the ability to store and share data via the SKF cloud, and to directly access SKF Remote Diagnostic Services.

訂購資訊

CMDT 391-Pro-K-SL
 CMDT 391-K-SL
 CMAC 8100
 CMEC 50-SITE
 CMDT 391-EX-K-SL
 CMAC 8010-EX
 CMAC 8007

QuickCollect Sensor, cable external, sensor & carry case
 QuickCollect Sensor(僅含本體和充電器)
 攜行箱
 SKF Enlight Centre 訂閱服務(年費制)
 防爆型 QuickCollect Sensor(僅含本體和充電器)
 具防爆認證延長量測套件
 具防爆認證充電器

SKF Enlight ProCollect



Sensor specifications – 感測器規格

Environmental, regulatory and physical

Operating temperature range	-20 to +60 °C (-5 to +140 °F)	
Storage temperature range	-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 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)	
Drop test with boot	1,8 m (6 ft) in accordance with MIL-STD-810G	
Sensor IP rating	IP65 (Dust and water ingress protection testing standard.)	
Radio approvals	Europe (CE), USA (FCC), Canada (IC)	
CE Mark	CE-approved	
Dimensions	45 x 45 x 135 mm (1.8 x 1.8 x 5.3 in.)	
Weight	200 g (7 oz)	
危險區域	Ex Marking	CSA Marking
僅針對 CMDT391-EX 系列(含配件)	IECEx : Ex ib IIC T4 Gb (Ta= - 20°C to 60 °C)	o Ex ib IIC T4 Gb -20 °C ≤ Ta ≤ +60 °C
	ATEX Zone I hazardous areas	o Class I, Zone 1, AEx ib IIC T4 Gb -20 °C ≤ Ta ≤ +60 °C
		o IS Class I, Div. 2, Group A, B, C, D, T4
Power		
Sensor power source	Rechargeable lithium battery, 3.7VDC, 0.14Ah	
Battery lifetime	A full working day under normal usage reducing to half a working day when an external sensor is being used.	
Charger	Output 5VDC, 1.6A Input 100 to 240 VAC, 0.4A, 47 to 63Hz Nominal voltages ±10% Transient Overvoltage Category II and Pollution Degree 2	

Measurement and analysis functions

Internal sensor	±5%: 5 Hz to 3 000 Hz
Frequency range	±10%: 3 Hz to 5 000 Hz ±3 dB: 1.4 Hz to 10 000 Hz The response is attenuating (3 dB down) at both frequencies
Overall velocity	10 Hz to 1 kHz up to 55 mm/s RMS (振動總值)
Bearing condition	SKF patented Enveloped acceleration (包絡加速度) 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.
Vibration Time Waveforms	Acceleration (g), Enveloped acceleration (gE) Sample rates: 256 Hz to 25.6 kHz Sample lengths: 256 to 8 192 samples
Spectrum/FFT	Acceleration (g), Velocity (mm/s), Enveloped acceleration (gE) Maximum frequency: 10 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. (以上完整的量測與分析功能只限搭配 SKF ProCollect app 和 Enlight Centre 健康管理平台使用)
Vibration measurements apply equally to either the internal or an external sensor.

External sensor support (外接感測器支援僅能適用在 CMDT391 系列)

External sensor types	2-wire, constant current, 100 mV/g accelerometers Supports ICP accelerometers. Provides greater than 4 mA.
Connection cable	SKF CMAC 8010 (IEPE). See also: External sensor setup.

Contact your local SKF distributor for more information

更詳細的可靠度系統產品資訊請連絡：
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