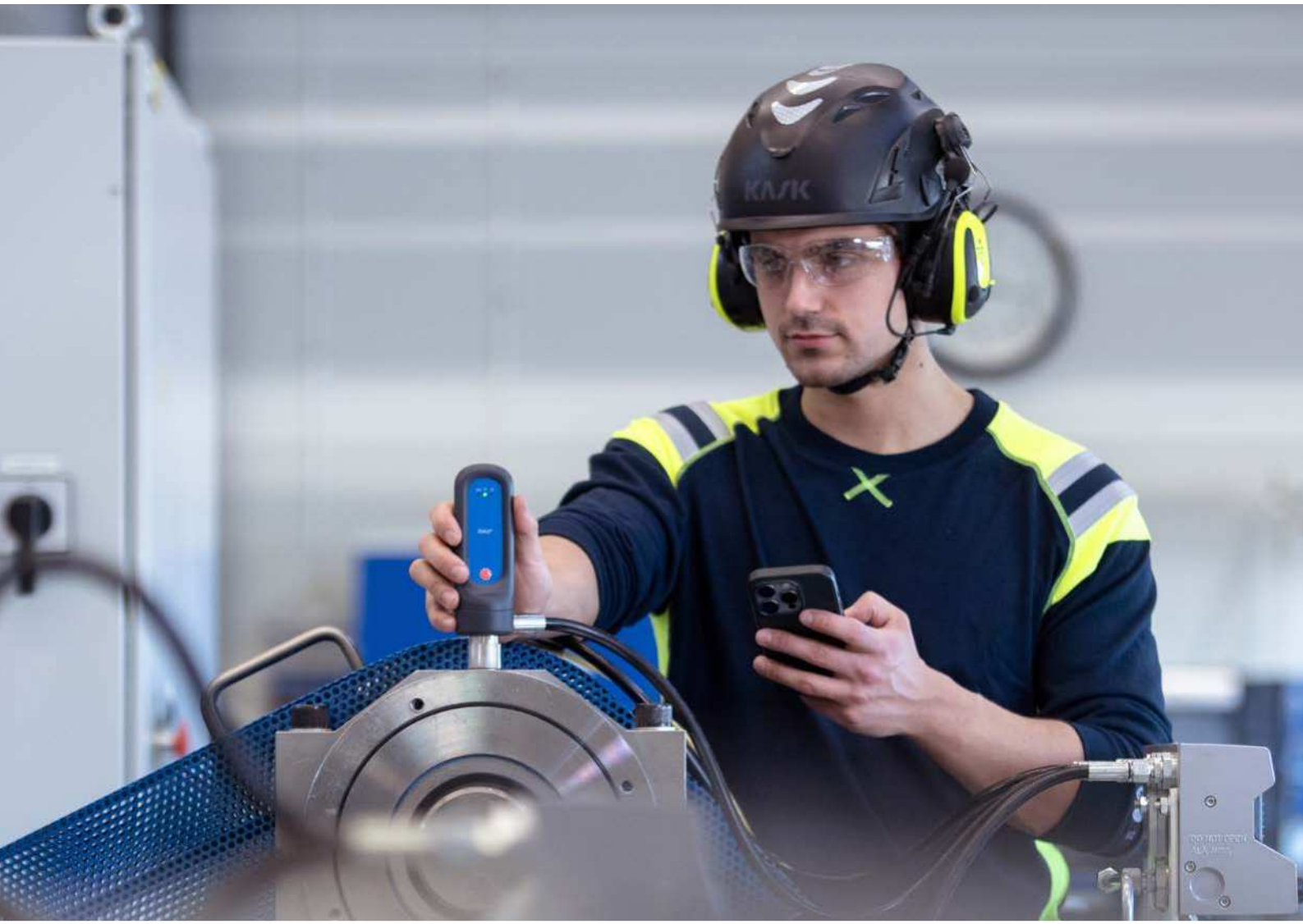
SKF QuickCollect

Machine monitoring made easy



Easy to use

Scalable

Cost-effective

A better overview of machine health from day one

The SKF QuickCollect sensor is an easy-to-use, Bluetooth-enabled, handheld sensor that connects to iOS and Android apps on your tablet and smart-phone. Combining vibration and temperature sensing, overall data can be viewed on the spot in real-time or pushed to the cloud for future analysis. The system is so intuitive that you can start using it in no time.

The fast track to predictive maintenance

With SKF QuickCollect, anyone can monitor machine health without extensive training or diagnostic expertise. A rugged sensor with mobile apps lets you quickly and easily identify your machine's condition. You can then share inspection, process and machine health data company-wide. You can also connect with SKF's remote diagnostic centres for expert analysis and advice.

- An intuitive user interface to get started quickly
- Identify developing rotating machinery issues before they become problems
- Expand functionality via apps to grow and complement your existing maintenance program
- Cost-effective and scalable entry-point for reliable rotation

SKF

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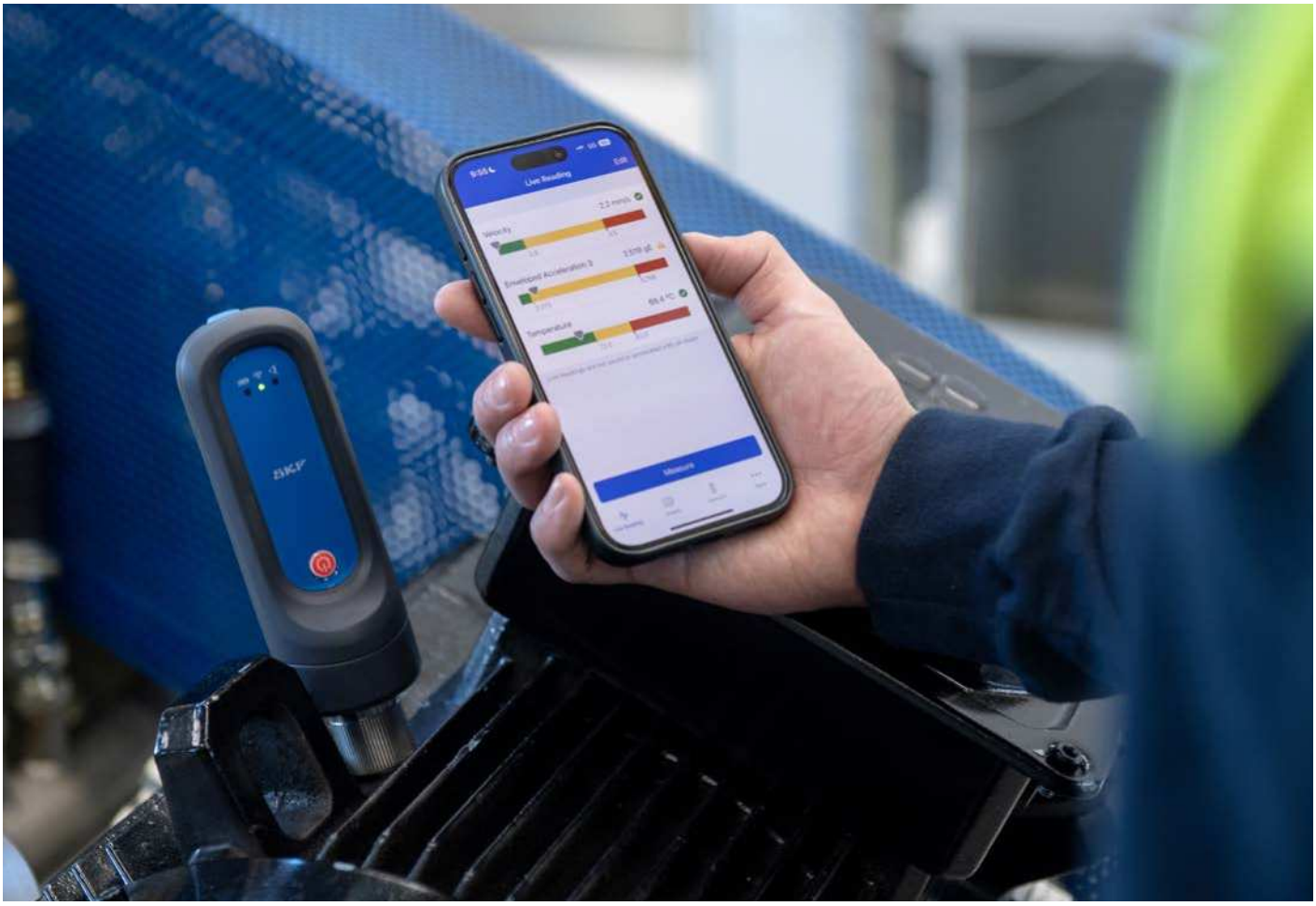
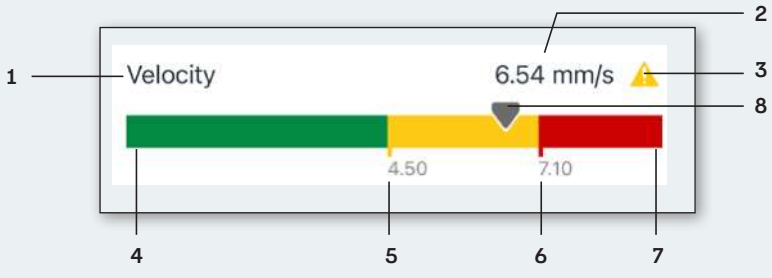


Measurements on your device

View velocity, bearing condition and temperature on an SKF QuickCollect app on your mobile device. Each reading displays an overall measurement, including alarm status, minimum and maximum values, and alert and danger thresholds.

- Predefined 3-in-1 overall measurements that include velocity, enveloped acceleration and temperature
- Bluetooth communication with tablets and smartphones
- Apps for both iOS and Android devices



1. Reading category
2. Overall value
3. Alarm status
4. Minimum
5. Alert threshold
6. Danger threshold
7. Maximum
8. Current reading

Made for industrial demands

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

- Water and dust-resistant (IP65) rugged design, proven in a drop test from 2 m *(6.6 ft)*
- Rechargeable lithium battery that lasts a full working day in normal usage

For hazardous area

SKF QuickCollect CMDT 391-EX is approved for use in ATEX, IECEx and NEC hazardous-rated environments.

Controls and indicators

1. Power on and off
2. Battery charge status – green or red
3. Communication status – green or red. Indicates an active app connection or firmware update.
4. Error condition status – green, red or amber

SKF QuickCollect apps

Use the sensor with the SKF QuickCollect or SKF ProCollect apps. They both provide colour-coded live readings, asset management and access to historical data. The SKF Enlight ProCollect app adds customisability, synchronisation with SKF Enlight Centre – a software solution for connecting directly to SKF remote diagnostic services – and access to SKF Cloud and remote SKF diagnostic experts.

	SKF QuickCollect App	SKF Enlight ProCollect App
Live readings designed for quick checks of machine status	✓	✓
Colour coded machine based on ISO standards	✓	✓
Asset management to ensure more accurate recommended corrective actions	✓	✓*
View historical data while in front of an asset	✓**	✓
Customised forms for inspection and process data collection	✗	✓
Synchronise with SKF Enlight Centre where your long-term data can be analysed	✗	✓
Access SKF Cloud and remote SKF diagnostic experts	✗	✓

*** Configurable asset measurement parameter** **** Up to 5 historical measurements can be saved per asset**

Sensor specifications

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.
Charging temperature, range (sensor/charger)	0 to 40 °C *(32 to 105 °F)*
Humidity	95% non-condensing
Altitude	Up to 2 000 m *(6 560 ft)*
Drop test	2.0 m *(6.6 ft)*, CMDT 391 and CMDT 391-EX in accordance with ANSI 12.12.03.
Sensor IP rating	IP65 (Dust and water ingress protection testing standard.)
Country certification	Europe (CE), USA (FCC), Canada (IC) both for CMDT 391 and CMDT 391-Ex; Korea (KCC) and Argentina (ENACOM) only for CMDT 391
Dimensions	45 x 45 x 135 mm *(1.8 x 1.8 x 5.3 in.)*
Mass	200 g *(7 oz)*

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

3-in-1 measurements and analysis

Overall velocity	10 Hz to 1 kHz, from 0.5 mm/s up to 55 mm/s, RMS, Resolution: 400 lines
Bearing condition	SKF Enveloped acceleration, gE Band 3, 1.4 Hz to 2 000 Hz, from 0.5 gE up to 20 gE true Peak-to-Peak, Resolution: 800 lines
Temperature	Built in (IR) sensor, capable of measuring outside operating temperature range and up to 100 °C for short periods.

Ordering Information

Standard kits	Hazardous area kits
CMDT 391-K-SL includes:	**CMDT 391-EX-K-SL includes:**
1 pcs CMDT 391 sensor	1 pcs CMDT 391-EX sensor
1 pcs CMAC 109 magnet	1 pcs CMAC 109 magnet
1 pcs CMAC 8004 power supply	1 pcs CMAC 8007 power supply
CMDT 391-PRO-K-SL includes:	**CMDT 391-EX-PRO-K-SL includes:**
As CMDT 391-K-SL plus:	As CMDT 391-EX-K-SL plus:
1 pcs CMAC 8010 accelerometer cable	1 pcs CMAC 8010-EX accelerometer cable
1 pcs CMSS 2100 accelerometer	1 pcs CMSS 786A-IS accelerometer
1 pcs CMAC 3715 BNC adaptor	1 pcs CMAC 3715 BNC adaptor
1 pcs CMAC 8011 carry case	1 pcs CMAC 8011 carry case

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PUB CM/P2 19871 EN · May 2024

Agency approvals for hazardous area

CMDT 391-Ex with CMAC 8010-Ex cable

Ex ib IIC T4 Gb –20 °C ≤ Ta ≤ +60 °C
Class I, Zone 1, AEx ib IIC T4 Gb –20 °C ≤ Ta ≤ +60 °C
IS Class I, Div. 2, Group A, B, C, D, T4

Ex ib IIC T4 Gb –20 °C ≤ Ta ≤ +60 °C