

# SKF Pulse<sup>™</sup> Your entry point to predictive maintenance.

SKF Pulse combines an easy-to-use, portable sensor with a free mobile app for iOS and Android to monitor machine health and quickly identify machinery issues before operations are impacted. Acting as a smart vibration tool, the sensor transmits wirelessly to the SKF Pulse app, instantly providing intuitive machine diagnostics.

# Machine monitoring made easy.

- **Easy-to-use, portable** sensor and a free mobile app
- Easy start-up with no prior training or experience needed
- Quickly monitors machine health and helps identify machinery issues before operations are impacted
- **Instant feedback** from vibration and temperature measurement
- In-app SKF Pulse™ Checks provide expert analysis, advice and diagnostic reports from SKF
- All at a cost-effective price point no need to make the case for capital expenditure

# Sensor features (CMDT390-K-SL):

- Velocity, acceleration and temperature measurements
- Bluetooth® communication with iOS and Android devices
- Rugged, industrial design: drop test at 6 ft (1.8 m), water- and dust-resistant (IP65)
- Rechargeable lithium battery (8 hours with normal usage)
- One year warranty covering manufacturing defects
- Two year calibration certificate



Part #: CMDT390-K-SL

#### Sensor controls and indicators:

- 1 Power button –
  Powers the sensor on and off
- 2 Battery LED (green, red) Indicates status of battery charge
- 3 Communication LED (green, red) Indicates sensor connection status to app and when firmware updates are in progress
- 4 All-purpose check LED For future use



For more information, contact your SKF Representative or visit skfusa.com/skfpulse.

# Technical specifications for CMDT 390-K-SL

## Regulatory specifications

IP rating IP 65, dust and water ingress

protection testing standard

Radio approvals Europe (CE), USA (FCC), Canada (IC)

CE mark CE approved

Measurement range

**Overalls** 

Velocity 10 Hz to 1 kHz up to 2.17 in/s (55mm/s)

Recommended speed range:

600 rpm - 3600 rpm

Bearing condition SKF patented envelope 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

Temperature Capable of measuring outwith

standard temperatures range up to

212°F (100°C) for short periods

Power

Main power Rechargeable lithium battery,

3.7 V DC, 0.14 A

Battery lifetime Eight hours with normal usage

Manual power off: Press and hold power button for 3+ seconds Auto power off: After 15 minutes

of no activity

MAINS supply Varies up to ±10% of the nominal voltage, charger voltage, TRANSIENT OVERVOLTAGE

CATEGORY II; POLLUTION DEGREE 2

Charger Input 5 V DC ±10%, 1 A

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

Output 5 V DC, 1.6 A

**Environmental** 

Storage temperature -5 to +115 °F (-20 to +45 °C) for

less than one month

-5 to +95 °F (-20 to +35 °C) for

less than six months

Operating temperature, 32 to +105 °F (0 to +40 °C) for charging

-5 to +140 °F (-20 to +60 °C)

for discharging

Operating temperature, 32 to +105 °F (0 to +40 °C)

charger

Altitude Up to 6,560 ft (2,000 m)

Humidity 95% non-condensing

**Physical** 

Case Water and dust resistant (IP65)
Drop test 6 ft (1.8 m) in accordance with

MIL-STD-810G

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

Weight 7 oz (200 g)

#### SKF Pulse includes

Pulse sensor CMDT-390-K-SL (includes charger, magnet

CMAC 8004

and rubber boot)

2-year calibration certificate Instructions for app download

### Ordering information for spare parts, if required

Charger, international

DC power supply

Magnet CMAC 8009







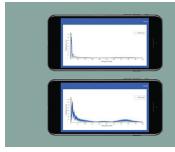
Measure vibration and temperature



Monitor asset health



On-the-spot access to SKF experts



Data collection graphs

For more information, contact your SKF Representative, email skf.connected@skf.com or visit skfusa.com/skfpulse.

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