

SKF Pulse[™] 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

Radio approvals CE mark

Measurement range

Overalls

Velocity

Bearing condition

FFT

Maximum frequency	

Lines of resolution

Detection type

Temperature

Power

Main power

Battery lifetime

MAINS supply

voltage, charger

Charger

IP 65, dust and water ingress protection testing standard Europe (CE), USA (FCC), Canada (IC) CE approved

10 Hz to 1 kHz up to 2.17 in/s (55mm/s) Recommended speed range: 600 rpm - 3600 rpm SKF patented envelope acceleration

SKF patented envelope acceleration up to 20 gE Velocity 1 kHz, enveloped acceleration 2 kHz

Velocity 400, enveloped acceleration 800 Velocity RMS, enveloped acceleration true peak to peak

Standard operating temperature range is -5 to +140°F (-20 to +60°C). Sensor is capable of measuring beyond the standard SKF Pulse operating temperature range up to 212°F (100°C) for short periods.

Rechargeable lithium battery, 3.7 V DC, 0.14 A 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 Varies up to ±10% of the nominal voltage, TRANSIENT OVERVOLTAGE

voltage, TRANSIENT OVERVOLIAGE CATEGORY II; POLLUTION DEGREE 2 Input 5 V DC ±10%, 1 A

AC adapter Input 100 to 240 VAC, 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, -5 to +140°F (-20 to +60°C) built in infrared (IR) sensor Operating temperature, 32 to +105 °F (0 to +40 °C) for charging -5 to +140 °F (-20 to +60 °C) battery for discharging 32 to +105 °F (0 to +40 °C) Operating temperature, charger Altitude Up to 6,560 ft (2,000 m) Humidity 95% non-condensing Physical Case Water and dust resistant (IP65) 6 ft (1.8 m) in accordance with Drop test 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 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

CMAC 8004



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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