Quick Start Guide

Power On

Press and hold the SEL **SELECT** key for more than 1 second to power on the Spotcheck device.

Press and hold the SEL **SELECT** key then press either the **BEARING** key or the **VIBRATION** key to power off the Spotcheck device.

Take a Vibration Overall Measurement

1. Attach the accelerometer sensor cable to the device by inserting the cable plug to the BNC connector and gently turning clockwise.
2. Attach the accelerometer sensor to the measurement point.

If the measurement location is smaller than the magnetic base of the accelerometer, use the included stinger probe.

1. Press the **VIBRATION** key. A vibration measurement numeric value will be shown in the center of the screen.
2. Press the SEL **SELECT** key repeatedly to toggle between the device's available measurement types: 'Disp' (displacement in µm peak-to-peak), 'Acc' (acceleration in g peak) and 'Vel' (velocity in mm/s RMS).
3. Press the **VIBRATION** key to hold the value being shown onscreen, and again to return to the active measurement mode.

Check Vibration Alarms

1. Press the SEL **SELECT** key repeatedly until 'Vel' (velocity in mm/s RMS) is displayed as the measurement type.
2. Press the **VIBRATION** key to hold the value being shown onscreen. A vibration alarm level using the ISO 10816-3:2009 standard will also be displayed on the LCD screen. Three alarm levels are possible and may be shown:
   - **OK** (indicated by a ☑ tick icon)
   - **Alert** (indicated by a single bell icon)
   - **Danger** (indicated by two bell icons)

   NOTE: The alarm level displayed is only applicable to the machine group (determined by the machinery's size and power) and support class (determined by the support structure the machinery has been mounted to: rigid, or flexible) specified in the bottom left-hand corner of the screen.
3. Press the SEL **SELECT** key repeatedly to toggle between machine groups and support classes.

   NOTE: A quick reference list of available values is printed on the device's rear label. For more information on machine groups and support classes, see the Spotcheck Reference Guide.

Check Status of Bearing

1. Press the  **BEARING** key. The BG measurement type will be selected ('Bg' will be displayed in the LCD screen's top left-hand corner). A vibration measurement numeric value will be shown in the center of the screen.
2. Press the 

SELECT key to toggle between the device's two available bearing measurement types: 'Bg' (acceleration in g RMS), 'Bv' (velocity in mm/s RMS).
3. Press the  **BEARING** key to hold the value being shown onscreen, and again to return to the active measurement mode.

Check Bearing Alarms

Press the  **BEARING** key to hold the value being shown onscreen. A vibration alarm level will also be displayed on the LCD screen. Three alarm levels are possible and may be shown:

- **OK** — Indicated by a ☑ tick icon
- **Alert** — Indicated by a single bell icon
- **Danger** — Indicated by two bell icons

The alarm level displayed is only applicable to the bearing shaft speed specified in the bottom left-hand corner of the LCD screen.

You must manually cycle through the five bearing shaft speed options available. Press the 

SELECT key repeatedly until the shaft speed most appropriate for the machinery being measured is displayed.

Take Temperature Measurement

1. Press the  **TEMPERATURE** key. The temperature measurement mode will be selected ('Temp' will be displayed in the screen's top left-hand corner). A temperature measurement numeric value will be shown in the center of the LCD screen. This is the temperature in front of the device's IR temperature sensor. Ambient temperature will be displayed in the bottom left-hand corner and the measurement unit in the bottom right-hand corner.

   NOTE: The default temperature unit is degrees Celsius. To change to Fahrenheit, press the  *SELECT key.*

2. Point the laser guide at the surface to be measured. DO NOT LOOK INTO THE LASER. The laser provides a visual indication of the field of view of the infrared thermometer sensor. Ensure the surface is within the device's 2 meter (6 feet) effective range. The LCD screen will display the surface temperature of the target surface.

   NOTE: The temperature range supported by the IR sensor is -20 °C to 120 °C (-4 °F to 248 °F).

3. Press the  **TEMPERATURE** key to hold the value being shown onscreen, and again to return to the active measurement mode.

Measurements of smaller objects should, if possible, be taken at close range. Beyond 2 meters temperature readings of even large targets may become unreliable.