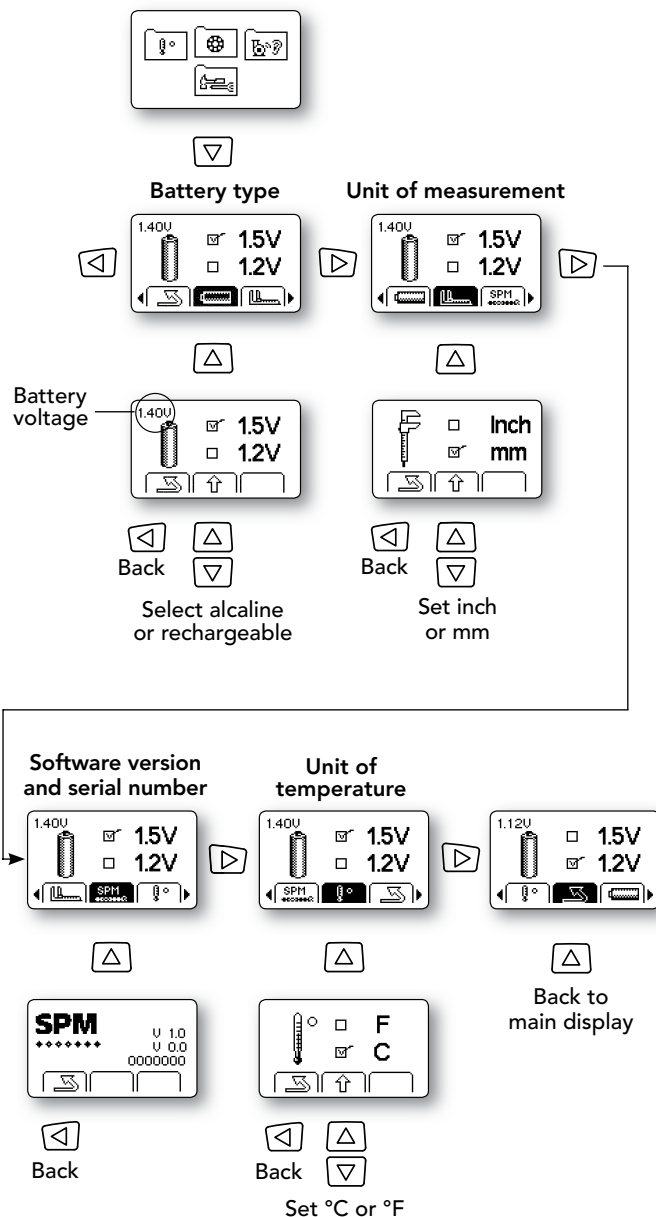
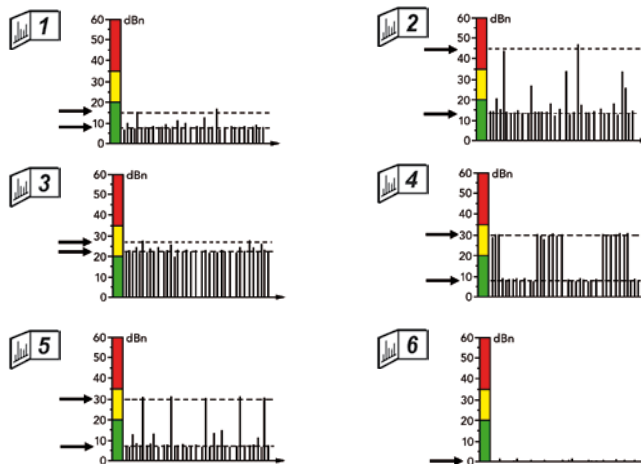




## General settings



## Bearing evaluation codes



The headphones are used to verify and trace shock pulse sources. The signal from a bearing should be highest on the bearing housing. If you get a higher signal outside of the bearing housing (across an interface in the material), you are most likely measuring shock pulses from another bearing or some other source. Typical for bearing signals is that the stronger shock pulses, best heard a few dB below the peak level, appear at random intervals.

- 1 For a good bearing, the dBm is within the green zone. dBm and dBc are not close together.
- 2 The shock pulse pattern from a damaged bearing contains strong pulses in the red zone, a random sequence, and a large difference between dBm and dBc. When you lubricate the bearing, the values should drop but rise again.
- 3 A dry running bearing has a high carpet value very close to the dBm. When you lubricate the bearing, the values should drop and stay low. A similar pattern is caused by pump cavitation, in which case readings on the pump housing are stronger than those taken on the bearing housing, and are not influenced by lubricating the bearing.
- 4 A regular pattern, containing burst of strong pulses in a rhythmic sequence, is caused by e.g. scraping parts.
- 5 Individual pulses in a regular sequence are caused by clicking valves, loose parts, regular load shocks.
- 6 A sudden drop in the shock pulse level is suspicious. Check your measuring equipment. If the reading is correct, you may have a slipping bearing ring.

## BearingChecker

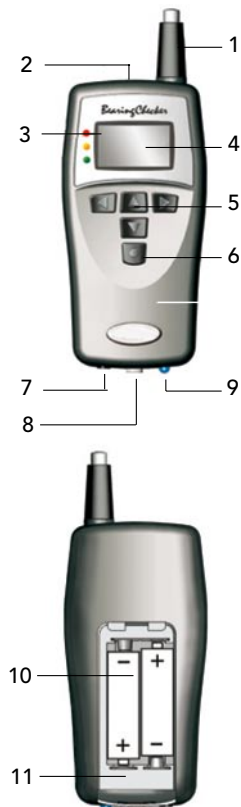


## QuickStart



## Instrument Overview

- 1 Measuring probe. Press to start measuring bearing condition.
- 2 IR sensor for temperature measurement.
- 3 Indicators in green, yellow and red for evaluated bearing condition.
- 4 Graphical display with LED backlight.
- 5 Navigation keys.
- 6 Measuring key and power on.
- 7 Output for headphones. Stereo mini-tele connector.
- 8 Transducer input for optional SPM transducers and measuring cables.
- 9 Measuring LED. Shows when measuring cycle is completed.
- 10 Battery compartment. Two batteries, type IEC LR6/AA, alkaline 1.5 V or rechargeable 1.2V. Press and push the lid to open. (+) and (-) are marked in the compartment.
- 11 Serial number label.



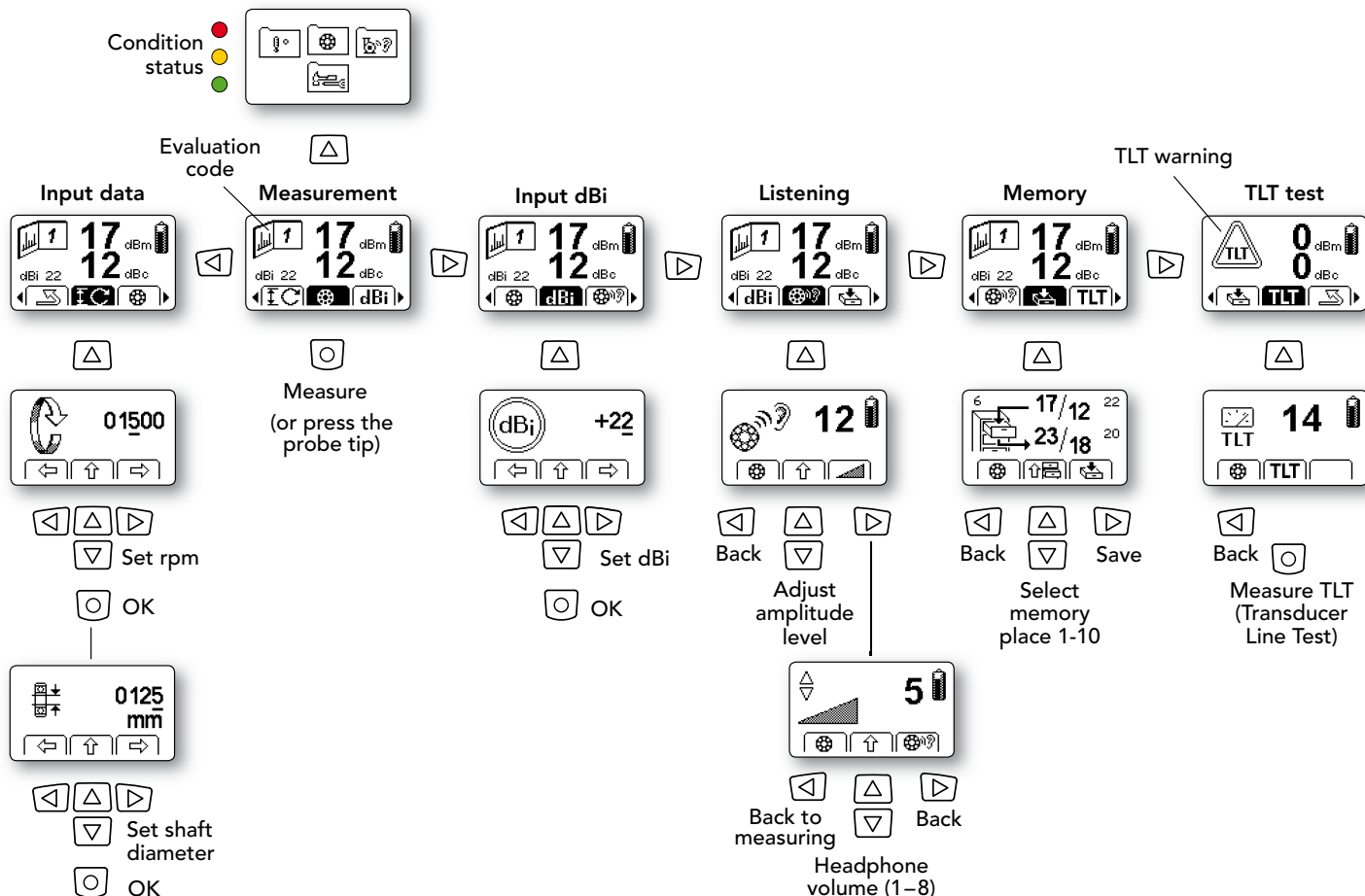
## Measuring

- Press the measuring key (6) briefly to switch on the instrument.
- Select General settings and measuring modes with the arrow keys.
- Select bearing measuring points in accordance with the rules stated in the User Guide to get reliable condition evaluations.
- Point the Bearing Checker straight at the bearing and hold it steady during measuring. Press the probe tip until the rubber sleeve is in contact with the surface.

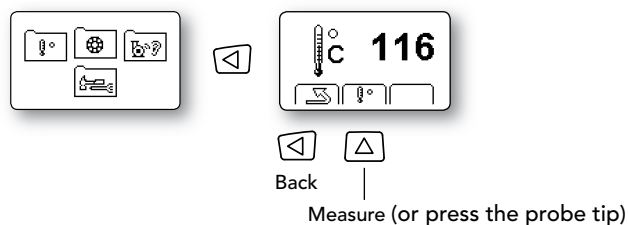
The blue measuring LED stops blinking when an SPM measuring cycle is completed. The green, yellow and red LEDs beside the display and an evaluation code on the display indicate the bearing condition

If not used, the instrument will shut off automatically after 2 minutes. To shut off the instrument immediately, press LEFT + RIGHT arrow buttons simultaneously.

## Bearing measurement



## Temperature measurement



## Stethoscope function

