

## Application

The SensorMount® Indicator TMEM 1500 provides a direct reading of the fit of a bearing mounted on a tapered seating. The SensorMount® Indicator is only compatible with SensorMount® bearings.

SensorMount® bearings from SKF have designation numbers beginning with the letters ZE, ZEB, or ZEV, e.g. ZE 241/500 ECAK30/W33.

The SensorMount® Indicator provides a numeric value that guides the user in achieving a reliable bearing fit.

The SensorMount® system is suitable for use with bearings fitted on adapter sleeves, withdrawal sleeves, and hollow shafts. The material composition of the shaft has no effect on the proper operation of the SensorMount® system.

## Description

When a bearing is mounted on a tapered seating, the diameter of the inner bearing ring increases. This causes a change in the internal clearance of the bearing. SensorMount® bearings contain a sensor that provides a measurement of this change. The SensorMount® Indicator TMEM 1500 interprets this signal and directly shows the numerical value on the display according to the formula:

$$\frac{\text{Clearance reduction in mm}}{\text{Bearing bore diameter in metres}} = \text{Displayed indicator value (Expansion of the ring)}$$

The unit is simple and easy to use, having only three buttons;

- ON/OFF Sets the power on or off.
- CLR Resets the display to zero.
- MAX Displays the maximum value since the SensorMount® Indicator was last reset.



The numeric display indicates the relative change in diameter of the inner ring of the SensorMount® bearing, when mounted on a tapered shaft. The measurement is displayed in millimetres per metre (0/00).

For example, when working with a bearing that has a 1 metre bore, a reading of 0.450 indicates that the internal clearance has been reduced by 0.450 mm.

## Technical data

Designation	TMEM 1500
Range of measurement	0 to 1500.
Power supply	9-volt alkaline battery, type IEC 6LR61
Battery life	8 hours, continuous use
Low battery warning	display shows "batt"
Auto shut-off	after 30 minutes of inactivity
Display	4-digit LCD with fixed decimal
Operating temperature range	-10 C to 50 C (14 F to 122 F)
Accuracy	+/- 1%, +/- 2 digits
IP rating	IP 40
Weight	250 g (8.75 oz.)
Size	157 x 84 x 30 mm (6.1 x 3.3 x 1.8 in)

SensorMount® is a registered trademark of AB SKF

More information on SensorMount® is available on:

[http://home2.skf.se/GOT/GHQ/gotgidi1.nsf/html/SA\\_SensorMount.html](http://home2.skf.se/GOT/GHQ/gotgidi1.nsf/html/SA_SensorMount.html)

