Surface Profile Gauge Standard Operating Procedure

1. Zeroing the Gauge

1.1.1.   Before taking measurements, always zero your gauge on a hard flat surface; use the standard Sample Block supplied with your gauge or a similar flat surface such as a window glass.

1.1.2.   Place the sensor foot on the standard block or glass, to ensure the tip is in the same plane as the base of the foot.

1.1.3.   At the same time press the ZERO Key to make the display show zero (0). Then, it is ready to use.

2. Measurement Procedure

2.1.1.   Switch on the gauge by pressing the POWER key

2.1.2.   Hold the gauge with the probe pressed firmly against the surface you are measuring so that the tip of the probe reaches into the bottom of the profile valley.

2.1.3.   Read the depth shown on the display. The display also shows the measurement units (um, mil)

2.1.4.   The measurement unit can be easily switched by pressing the um/mil Key.

3. How to take Average Value

3.1.1.   To take the average value of many times of measurements, just depress and release the N/AVE Key to make the symbol 'N' showing on the display, followed by a digit between 1-9 with the prefix 'No.'. Here the digit is the times of measurements used to calculate the average value. Every time depress and release the N/AVE Key, the digit will increase 1. and the digit will become '1' wile depressing the N/AVE Key at '9'.

3.1.2.   Adjust the digit to the number needed and depress um/mil Key or Zero Key to return to the measurement state or wait for several seconds until '0' on the display.

3.1.3.   Take measurements as per steps from 2.2 to 2.4. Every time take a measurement, the reading and the times of measurements show on the display. When the times of measurements is equal to the number set, the gauge first displays the reading of the last, and then display the average value of last 'N' measurements, followed by 2 beeps with a symbol 'AVE' indicating on the display.

3.1.4.   To take the next average value, just repeat 3.3.

3.1.5.   To release from average measurement, just depress the N/AVE Key until 'N' disappears.