# DIGITAL SURFACE PROFILE GAUGE SRT-6223+

#### 1. FEATURES

- \* This Digital Surface Profile Gauge is a handheld gauge for fast and accurate measurement of the peak-to-valley height of the surface profile of blast cleaned surfaces.
- \* It meets the standards of ASTMD-4417-B, IMOMSC.215(82), SANS5772, US Navy NSI 009-32, US Navy PPI-63101-000. Suitable for the laboratory and for use in harsh field conditions. Accurate, immediate and repeatable results.
- \* The tungsten carbide tip will last for up to 20,000 readings and can then be easily replaced by the user in the field. Cost per test is significantly lower than other test methods.
- \* Used the exclusive Micro-computer LSI circuit and crystal time base to offer high accuracy measurement.
- \* Can communicate with PC for

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recording, printing and analyzing by the optional software and cable for RS-232C interface. USB adaptor and Bluetooth interface can also be used. Automatic power off to conserve power.

- \* Widely used in field of blast cleaned surface measurement. If the profile is too large the amount of coating required to ensure adequate coverage increases, otherwise there is a danger that the peaks remain uncoated-allowing rust spots to occur. If the profile is too small, there may be an insufficient key to produce adequate adhesion, leading to premature coating failure. Ensuring the correct surface preparation optimises the performance of the coating and material usage.
- \* Separate type.

# 2. SPECIFICATIONS

Display: LCD Display Resolution: 1 μm (0.1 mils)

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4.4 The measurement unit can be easily switched by pressing the  $\mu m/mil$  Key.

## 5. ZEROING YOUR GAUGE

- 5.1 Before taking measurements, always zero your gauge on a hard flat surface; use the Standard Sample Block surplied with your arge or similar flats arface such as andowylass.
- 5.2 Place the sensor too, on the standard block or glass, to ensure the tip is in the same plane as the base of the foot.
- 5.3 At the same time press the ZERO Key to make the display show 0 (zero). Then, it is ready to use.

### 6. HOW TO TAKE AVERAGE VALUE

6.1 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' while depressing

Relative humidity: no more than 85%

(readings per minute)

(whichever is the greater)

(UM-4)Battery

Size: 126x65x28mm(4.96x2.56x1.10")

Weight: 280g (Not included Batteries)

(0mils to 31.5mils)

Operating temperature: 0°C~50°C

Operating Humidity: <80%RH

Power supply: 4x1.5vAAA

Standard Accessories:

\* Standard Sample Block

\* USB Data Cable & Software

\* Bluetooth Adapter & Software

Optional Accessories:

\* Main Unit

\* Carrying case

\* Manual Book

\* Sensor

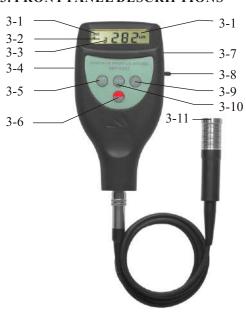
Range: 0 um to 800 um

Measurement speed: >30

Accuracy: ±5% or ±5μm

- the N/AVE Key at '9'.
  6.2 Adjust the digit to the number needed and depress µm/mil Key or ZERO Key to return to the measurement state or wait for several seconds till '0' on the display.
- 6.3 Take measurements as per steps from 4.2 to 4.4. 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.
- 6.4 To take the next average value, just repeat 6.3.

#### 3. FRONT PANEL DESCRIPTIONS



- 3-1 Average Value Indicator
- 3-2 Display
- 3-3 Number of Measurements Memorized for Average Value
- 3-4 Data Cable Interface
- 3-5 μm/mil Key
- 3-6 POVELKE
- 3-7 Batte 7 Cove:
- 3-8 Wrist King
- 3-9 N/AVE Key
- 3-10 ZERO Key
- 3-11 Sensor Tip

#### 4. MEASURING PROCEDURE

- 4.1 Switch on the gauge by pressing the POWER Key.
- 4.2 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.
- 4.3 Read the depth shown on the display. The display also shows the measurement units (μm, mil).

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

### 7. BATTERY REPLACEMENT

- 7.1 When the battery symbol appears on the display, it is time to replace the batteries.
- 7.2 Slide the Battery Cover away from the tester and remove the batteries.
- 7.3 Install batteries paying careful attention to polarity.
- 7.4 If the instrument is not to be used for any extended period, remove batteries.
- 8. COMMUNICATING WITH THE PC Install the batteries correctly into the case. Can communicate with PC for statistics and printing by the optional cable and software for USB and Bluetooth. Follow the instructions of transferring readings to a computer.

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