

TQC SURFACE PROFILE GAUGE
SP1562

MANUAL

1 PRODUCT DESCRIPTION

The TQC surface profile roughness gauge is a simple instrument for ultrafast measuring of the point peak-to-valley height of a surface.

**1.1 Technical Specifications**

Range	: 0~3,4 mm / 0~0.13 inch
Resolution	: 1µm / 0.04 mil
Accuracy	: ± 5µm / 0.2 mil
Thread	: M2.5 x 0,45
Holder dia.	: 20 mm / 0.79 inch
Battery	: Type LR44 1.5 V

1.2 Details

- 1) On/off switch
- 2) Roughness tip
- 3) Zero setting button
- 4) inch/mm button

**2 STANDARDS**

ASTM D 4417-B

3 WHAT'S IN THE BOX?

TQC roughness gauge
Glass plate
Leather pouch
Allen key
LR44 1.5V battery

4 SPARES / ACCESSORIES

SP1616	Replacement tip for roughness
SP1618	Spare leather pouch for SP1560

5 PERFORM A MEASUREMENT

1. Press the On/Off button to switch the gauge on.
2. Choose parameter by pressing the IN/MM button.
3. Place the needle of the gauge on the flat glass specimen (zero plate) and press the gauge with the holder down until the base of the holder stands firmly on the zero plate.
4. Press the ZERO button to make the instrument read zero.
5. Place the needle gentle on the blasted surface and press the base of the gauge-holder firmly against the steel. Do not drag the instrument.
6. Read the peak-valley value.
7. Make 10 measurements on each desired location and determine the mean as being the profile of the surface.



6 BATTERY REPLACEMENT

If the display blinks it's necessary to replace the battery. The battery compartment lid is the grey cap on top of the gauge. Remove it by lifting it with a small screw driver. Replace the LR44 battery with its positive side facing upwards.

7 CALIBRATIONS

We recommend annual calibration. For calibration, send the instrument, together with a RMA form* to TQC, Molenbaan 19, 2908 LL Capelle aan den IJssel, NL.

*You can download the RMA form here: <http://www.tqc.eu/en/service/repairs-calibrations/>

8 MAINTENANCE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.

9 DISCLAIMER

The right of technical modifications is reserved.

The information given in this manual is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this manual without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this manual or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other

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