SR300 and SR400 Overview
SR300 and SR400 Surface Roughness Tester

These new editions of Starrett Surface Roughness Testers incorporate a large display with the simplest of menu structures and the most up-to-date parameters. Their mechanical rigidity and styli have a firm reputation for reliable and repeatable surface finish measurements across a wide range of applications.

The SR Surface Roughness Tester comes in two variants: the SR300 is our standard offering, while the SR400 offers extended measurement range and analysis capability.

The SR300 and 400 are battery powered and offers total portability with a built-in memory capacity (holds up to 100 readings). The instrument can be used either freestanding (on horizontal, vertical or even inverted surfaces) or with bench mounted fixtures for batch measurement and laboratory applications.
SR300 and SR400 Surface Roughness Tester

Durable
• High impact rubberized molding IP44 rated
• Recessed, Mylar protected high durability touch screen
• Solid steel drive mechanism
• Robust anti-wear gears and bearings
• Heavy-duty Li-Poly battery
  – 2000 measurements
  – 5000 hours standby

Versatile
• Unique 50mm stylus lift/lower
  – Simple setup on any surface
• Multiple pickups available
  – Small bore, groove, o-ring, etc.
• Measure in any orientation
  – Even upside down
• Evaluation length up to 25mm
• Anti-slip V-feet for flat or curved parts
SR300 and SR400 Surface Roughness Tester

User-Friendly

- 4.3” daylight readable display
- Operation in any orientation
  - Settings always on display
- Colour touch screen interface
  - Up to 7 results on each page
- Single button measurement
- InstantOn™ < 1 second restart

Connectivity

- Standard USB Charging (PC or Mains)
- Storage of results internal or USB key
  - 100 internal, >10,000 on USB
- USB to PC for advanced analysis
  - Includes free Talyprofile software
- USB remote Settings and Measurement
- Standard USB Printing (ESC/POS)
SR300 and SR400 Surface Roughness Tester

Measuring Flat or Cylindrical Surfaces

Extended Pick-Up

Measure Right-Angles

Lift Lower Mechanism 0 to 60mm of Height

Built in Memory as Standard

Traverse Length = 25mm
SR300 and SR400 Surface Roughness Tester

- Function Button
  - Turn the Device On
  - Make a Measurement

- USB Mini Port
  - Connect to PC
  - Charge Device

- USB Type A Port
  - Connect Printer
  - Connect External Memory

Touch Screen

Starrett

PRECISION, QUALITY INNOVATION
SR300 and SR400 Surface Roughness Tester

Parameter Options to Suit Your Application

Fast Measurement Cycle

Intuitive Menu Structure

Unique Stylus Lift Mechanism for Total Flexibility

Long Traverse Length and Extended Pick-Up Reach

Comprehensive Range of Accessory and Pick-Up Options

Storage of Up to 100 Readings

Powerful Software Option

World Class Technical Support

Starrett®

PRECISION, QUALITY INNOVATION
INSTRUMENT OVERVIEW
SR300 and SR400 Surface Roughness Tester

Parameter Options to Suit Your Application

The SR300/SR400 can calculate up to 22 parameters according to your measurement application including:

**Amplitude Parameters**
Measures the vertical characteristics of the surface deviations:
- $Ra$ (Arithmetic Mean Deviation)
- $Rsk$ (Skewness)
- $Rz$ (Average peak to valley height)
- $Rt$ (Total height of profile)
- $Rp$ (Max profile peak height)
- $Rz1max$ (Max peak to valley height)

**Spacing Parameters**
Measures the horizontal characteristics of the surface deviations:
- $RPc$ (Peak count)
- $RSm$ (Mean width of profile elements)

**Hybrid Parameters**
Combinations of spacing and amplitude parameters:
- $Rmr$ (Material Ratio)
- $Rda - R Delta a$ (Arithmetic Mean Slope)

The above parameters cover the most common requirements to check lubrication, feed rates, stresses, friction and wear properties. Additional parameters can be analysed with the addition of Talyprofile software.

Instrument Overview

Starrett®

PRECISION, QUALITY INNOVATION
Instrument Overview

Fast Measurement Cycle
The SR300/SR400 incorporates the latest electronics for very fast analysis - results are calculated and displayed even before the traverse unit returns. This fast processing, combined with intuitive menu buttons, greatly reduces measurement cycles.

Intuitive Menu Structure
The SR300/SR400 incorporates a large LCD screen which allows full menu and measurement results to be displayed. Using only two buttons the user can scroll through the menus and make selections intuitively before pressing the MEASURE key. All selections are saved for future measurements. All the measurement criteria and results are displayed clearly on the screen ready to print or export to a PC.

Powerful Software Options
The SR300/SR400 includes Type A USB and USB mini ports which allow connection to a printer or exportation of results to a PC for further analysis using the optional Talyprofile software. By setting the SR300/SR400 to 'Data Dump' mode, measurements can be instigated directly from the Talyprofile software.
Instrument Overview

Unique Stylus Lift Mechanism

The SR300/SR400 has a uniquely engineered stylus lift mechanism which allows a vertical adjustment of 50mm and rotation of the pick-up to different measuring positions, including right angle or inverted measurements. These adjustments to the height and position of the gauge allow areas and features of a part to be easily measured without additional fixtures. This feature saves the operator a huge amount of set up time and allows total flexibility. Typical applications where the stylus lift is invaluable include the measurement of steps, bores, grooves and lands.

Built-in Memory/Storage

No PC or printer cables in your way while you measure – the SR300/SR400 is now truly portable: Take your surface roughness tester wherever you need to take measurements, save as many batch readings as you need (max 100 measurements) then download to your PC or printer at your convenience.

External Memory

Storage is expandable with a standard USB stick. The 4 GB USB stick provided with the unit is capable of storing over 64,000 screen shots and/or measurements.
Instrument Overview

Long Traverse Length and Extended Pick-Up Reach

The SR300/SR400 can traverse up to 25mm (or as little as 0.25mm) depending on your component. In addition, the stylus length and pick-up configuration give a long reach, making it an ideal instrument for features such as large and narrow bores. Optional extension rods extend the pick-up further.

Comprehensive Range of Accessories and Pick-Ups

Starrett has developed an extensive range of pick-ups and accessories to suit the varied measurement needs of our customers. In addition to the pick-ups shown on page 6 our applications department regularly designs and manufactures pick-ups and fixtures for specific requirements.
TALYPROFILE
Talyprofile

Advanced Surface Finish Analysis

Talyprofile is a dedicated software package designed for use with workshop or laboratory instruments.

Three versions are available:

- Talyprofile “Silver” has all functions typically used for a shop floor inspection.
- Talyprofile “Gold” has complete laboratory analysis functions.
- Talyprofile “Lite” is a free download, available from ‘talyprofile.com’
  - Click the button below to open the website.

Talyprofile.com
# SR300 and SR400 Surface Roughness Tester

## General Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Gold</th>
<th>Silver</th>
<th>Lite</th>
<th>Modules</th>
</tr>
</thead>
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<tr>
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**Key**
- ✓ Included
- ⇒ Available in Optional Module(s)
- STA Statistics
- CT Contour
- ACT Advanced Contour
### Interface

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<td>File explorer and favorite folders</td>
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### Operators on Profiles

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<td>CT</td>
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<td>ACT</td>
<td>Advanced Contour</td>
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# Talyprofile

**SR300 and SR400 Surface Roughness Tester**

<table>
<thead>
<tr>
<th>Studies on Profiles</th>
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<th>Lite</th>
<th>Modules</th>
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**Key**

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### Parameters

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### Operators on Series of Profiles

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### Studies on Series of Profiles

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<td>Scatter plot</td>
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<td>STA</td>
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<tr>
<td>CT</td>
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<tr>
<td>ACT</td>
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</tbody>
</table>
Talyprofile

**Time-Saving Templates**
A 'template' can be created whereby a sequence of analytical functions can be saved and applied to future measurements, turning detailed reporting tasks into routine documents.

**Desktop Publishing Facility**
Talyprofile offers a comprehensive desk top publishing function which allows professional presentation of measurement results and profiles. Graphs, profiles and results can be arranged and printed from within the Talyprofile software or copied into other word-processing documents giving complete flexibility in reporting.

**Full Compatibility**
Surface finish results from other Starrett surface roughness instruments can be imported to Talyprofile software, allowing a uniform report style to be used throughout your workshop or laboratory.
Talyprofile Parameters

Roughness Parameters
Obtained by Filtering: Ra, Rq, Rt, Rp, Ry, Rku, Rsk, RSm, Rz, RΔq, RTp, RHTp, Rlo, Rλq, RPC, RzJIS, R3z.

Waviness Parameters
Obtained by Filtering: Wa, Wq, Wt, Wp, Wv, Wku, Wsk, WSm, Wz, WzJIS, Wλq, WΔq, WTp, WHTp, WLo, WPC, W3z.
(only with Gold version and instruments with straightness datum)

Parameters on the Raw Profile
Unfiltered: Pa, Pq, Pt, Pp, Pv, Pku, Psk, PSm, Pz, PΔq, Pλq, PTp, PHTp, PLo, PPC.

Parameters Obtained by Double Filtering
DIN 4776: Rk, Rpk, Rvk, MR1, MR2, A1, A2, Rvk.
(only with Gold version)

Parameters Obtained by the Motifs Method
(only with Gold version)
Talyprofile

Outstanding Graphics
The software is visually advanced and provides clear on screen profile images. Talyprofile allows the user to take a basic measurement and create a full measurement report using the software’s detailed analysis options and desktop publishing function.

In Depth Analysis
Profiles can be levelled and zoomed to remove unwanted features or defects from the analysis. Distance measurement between features and areas of a profile are easily implemented and the information can be displayed graphically and numerically. Step height and the area of a hole or peak can also be displayed.
SR300 AND SR400 ACCESSORIES
USB Thermal Printer

Cat. No. SR-112-4570

Compact and highspeed 60mm (24in)/second. Includes USB lead and International Power Supply Outputs settings, results, and high resolution graph.
Support Stand

*Cat. No. SR-112-1517*

With 4 degrees of freedom. Max measuring height of 430 mm and a range of 115 mm at a horizontal reach of 305–420 mm.

Column and Stand

*Cat. No. SR-112-2693*

Granite base (400 x 250 mm) with manually operated column providing adjustment height of 260 mm.
SR300 and SR400 Accessories

Extension Rod

*Cat. No. SR-112-1510 (200mm length)*

Provides extension to pick-up for measurements in deep holes. Longer extension rods can be made to order.

Plug Adaptors

*Cat. No. SR-112-4545*

International USB charger

- 5V 1A 110-240VAC
- 50/60Hz

Recharges SR300/SR400 in 4 hours.
SR300 and SR400 Accessories

Height Transfer Gage
Cat. No. 252Z-14

Clamp
Part No. PT99560
Clamp to attach SR300 and SR400 to 252 Height Transfer Gage
PICK-UPS
Starrett has developed an extensive range of pick-ups to suit the varied measurement needs of our customers. In addition to the pick-ups shown below our applications department regularly design and manufacture pick-ups for specific requirements.

**Standard Pick-Up**

*Cat. No. SR-112-1502*

For general surface roughness measurement. Also available with 10μm (400μin) tip radius. (code 112-1503)

**Small Bore Pick-Up**

*Cat. No. SR-155-P28495*

For general use in small bores, grooves and on narrow surfaces.
Pick-Ups

Right Angle Pick-Up
Cat. No. SR-112-1505
For measurement at right angles to the direction of traverse.

Recess Pick-Up
Cat. No. SR-112-1506
For recesses to a depth of 5.7mm (0.23in). A 2μm tip radius version is available (code 112-2672). (Also available for 25mm depth.)
Technical Specifications and Dimensions

SYSTEM INFORMATION
## Technical Specifications

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<thead>
<tr>
<th>Technical</th>
<th>SR300</th>
<th>SR400</th>
</tr>
</thead>
<tbody>
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<tr>
<td><strong>Data Output</strong></td>
<td>On-Screen: Up to 7 results per page, selectable on-screen graph with XZ axis</td>
<td>Printer: Output settings, results and high resolution profile graph</td>
</tr>
<tr>
<td><strong>PC Connection</strong></td>
<td>Full data analysis with Talyprofile</td>
<td>Full data analysis with Talyprofile</td>
</tr>
<tr>
<td><strong>Data Storage</strong></td>
<td>Internal: 100 measurement results, 1 raw profile</td>
<td>USB (4GB supplied): &gt;39,000 raw profiles, up to 100,000 results per batch (&gt;70 batches)</td>
</tr>
<tr>
<td><strong>SPC/Stats</strong></td>
<td>Internal: Optional</td>
<td>Optional: Optional</td>
</tr>
<tr>
<td></td>
<td>ASCII export of all results for SPC</td>
<td>Min, Max, Mean, StdDev of stored results</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Charger: USB 5v 1A 110-240VAC 50/60Hz</td>
<td>PC Connection: Full SPC and tolerancing of all parameters using Talyprofile software</td>
</tr>
<tr>
<td></td>
<td>Charging Time: 4 hours</td>
<td>Standby Time: 5,000 hours</td>
</tr>
<tr>
<td></td>
<td>Battery Life: 2,000 measurements</td>
<td>InstantOn: Max 1 sec from standby to ready to measure</td>
</tr>
<tr>
<td></td>
<td>Standby Time: 5,000 hours</td>
<td>Auto Sleep Function: 30 sec – 6 hours</td>
</tr>
<tr>
<td></td>
<td>InstantOn: Max 1 sec from standby to ready to measure</td>
<td>Auto Sleep Function: 30 sec – 6 hours</td>
</tr>
</tbody>
</table>
## Technical Specifications

**SR300 and SR400 Surface Roughness Tester**

<table>
<thead>
<tr>
<th>Component Capacity</th>
<th>SR300</th>
<th>SR400</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Specifications</strong></td>
<td><strong>Weight Including Pickup</strong></td>
<td><strong>IP Rating</strong></td>
</tr>
<tr>
<td></td>
<td>0.5Kg (1.1lbs)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td><strong>IP Rating</strong></td>
<td>IP43</td>
</tr>
<tr>
<td></td>
<td><strong>Power Source</strong></td>
<td><strong>Rechargeable battery</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Li Poly rechargeable battery</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Conditions</strong></td>
<td><strong>Temperature</strong></td>
<td><strong>Humidity</strong></td>
</tr>
<tr>
<td></td>
<td>5 - 40°C (41-104°F)</td>
<td>0 - 80% non-condensing</td>
</tr>
<tr>
<td><strong>Storage Conditions</strong></td>
<td><strong>Temperature</strong></td>
<td><strong>Humidity</strong></td>
</tr>
<tr>
<td></td>
<td>0 - 50°C (32 - 122°F)</td>
<td>0 - 90% non-condensing</td>
</tr>
</tbody>
</table>
## Dimensions

<table>
<thead>
<tr>
<th>Measurement Capability</th>
<th>SR300</th>
<th>SR400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Range</td>
<td>200µm, 100µm, 10µm</td>
<td>400µm, 100µm, 10µm</td>
</tr>
<tr>
<td>Resolution</td>
<td>100nm, 20nm, 10nm</td>
<td>50nm, 10nm, 5nm</td>
</tr>
<tr>
<td>Noise Floor (Ra)</td>
<td>250nm, 150nm, 100nm</td>
<td>150nm, 100nm, 50nm</td>
</tr>
<tr>
<td>Repeatability (Ra)</td>
<td>1% of value + noise</td>
<td>0.5% of value + noise</td>
</tr>
<tr>
<td>Pickup Type</td>
<td>Inductive</td>
<td></td>
</tr>
<tr>
<td>Gage Force</td>
<td>150 – 300mg</td>
<td></td>
</tr>
<tr>
<td>Stylus Tip Radius</td>
<td>5µm (200µin default/2µm (80µm) or 10µm (400µm) optional</td>
<td></td>
</tr>
<tr>
<td>Measurement Type</td>
<td>Skidded</td>
<td></td>
</tr>
<tr>
<td>Calibration Process</td>
<td>Automated software calibration routine</td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>Able to calibrate to ISO 4287 roughness standards</td>
<td></td>
</tr>
<tr>
<td>Analysis Filter Cut-Off</td>
<td>0.25mm/0.8mm/2.5mm</td>
<td></td>
</tr>
<tr>
<td>Filter Type</td>
<td>2CR/Gaussian</td>
<td></td>
</tr>
<tr>
<td>Evaluation Length</td>
<td>0.25mm – 12.5mm (0.01in - 0.49in)</td>
<td>0.25mm – 25.0mm (0.01in – 0.98in)</td>
</tr>
<tr>
<td>Max X Axis Range</td>
<td>17.5mm</td>
<td>25.5mm</td>
</tr>
<tr>
<td>Speed Measuring Speed</td>
<td>1mm/sec (0.04in/sec)</td>
<td></td>
</tr>
<tr>
<td>Returning Speed</td>
<td>1.5mm/sec (0.06in/sec)</td>
<td></td>
</tr>
</tbody>
</table>
## Dimensions

<table>
<thead>
<tr>
<th>Analysis Capability</th>
<th>SR300</th>
<th>SR400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
<td>Standards: ISO 4287, ISO 13565-1, ISO 13565-2, ASME 46.1, JIS 0601, N31007</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>ISO Basics</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdq, RSm, Rz1max</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>ISO Advanced</td>
<td>Optional</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>ASME</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rdq, RSm, Rpm, Rda</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>JIS</td>
<td>Ra, Rv, Rp, Rz, Rt, Rq, Rsk, Rmr, Rdq, RSm, RzJIS, Rc, Rku, Rdc</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>Other</td>
<td>R3z (Daimler Benz)</td>
<td>Rk, A1, A2, Mr1, Mr2, Rpk, Rvk</td>
</tr>
<tr>
<td>ISO Primary</td>
<td>Optional</td>
<td>Pa, Pv, Pp, Pz, Pt, Psk, Pmr, Pdq, Ppc, PSm, Pz1max</td>
</tr>
<tr>
<td>Units</td>
<td>µm/µin</td>
<td>µm/µin</td>
</tr>
</tbody>
</table>

**SR300 and SR400 Surface Roughness Tester**
OTHER STARRETT PRODUCTS
SR100 – Surface Roughness Tester

*(Roughness only)*

The SR100 measures Ra or Rz at the touch of a button and shows the result on a large LCD window.

Optional additional parameters Rp, Rv and Rt can be displayed and units of measure switched between inch and metric without re-measuring the part.

- Skidded pick-up with 5μm (200μin) stylus tip.
- 0.8mm (0.03in) cut-off.
- Self-contained, battery operation for shop floor use.
Other Starrett Products

**RT800**
The RT800 is robust enough for the shop floor but accurate for any inspection area, giving a flexible solution for all roundness and form measurements.

- Patented gage orientation
- Robust enough for 24/7 operation
- Easy-to-use touchscreen software

**RT500**
The RT500 has the same robust construction as the RT800, but with a few less features and is economically priced.
INSTRUCTION MENU
Instructions

Instruction Menu

Menu
Tap the “Menu” icon in the left-hand corner.

Tap the “Down Arrow” to scroll down through the menu.
Instructions

Instruction Menu

Tap the ‘Arrow’ icon to move down to the next item in a list.

Tap the ‘Tick’ icon to confirm your selection or data input.

Tap the ‘Return’ icon to return to the previous screen.

Tap the ‘Home’ icon to return to the Home screen.
Graph
Tap the “Graph” icon on the left-hand side of the screen to view a graph of your measurement.
## Instructions

### Instruction Menu

### Battery
This icon indicates the SR300/SR400 current Battery life.

This icon indicates that the SR300/SR400’s battery is charging.

### Internal Memory
This icon indicates that the data is saved to internal memory.

### External Memory
This icon indicates that the data is saved to an external memory source.
Instructions

Instruction Menu

Rotate
Tap the “Rotate” icon to rotate the screen between landscape and portrait mode.
Instructions

Instruction Menu

SR300 and SR400 Surface Roughness Tester

Rotate
Tap “Starrett” icon to take a screen shot of the device.

The screen shot saved to the external USB drive.
Instructions

Instruction Menu

Calibration

Tap ‘Calibration’ and then the ‘Settings’ icon to see a list of calibration options.
Calibration Value

Tap 'Calib. Value' and enter the value you require. Tap the “Save” icon to save the calibration value.
Instructions

Instruction Menu

Calibration Filter - Type
Tap “Filter” and then “Type” to select your required filter option.
Calibration Filter – Cut Type
Tap “Filter” and then “Cut-Off” to select your required cut-off option.
Calibration Settings
Tap “Settings” to enter your required calibration options.
**Cut-Off**
Tap the “Cut-off” icon to edit the length.

- **SR400**
  - \( \lambda_c \) 0.80mm Gauss

- **Cut-off**
  - \( \lambda_c \) 0.25mm
  - 0.80mm
  - 2.50mm

**Filter Type**
Tap the “Filter” icon to edit the type.

- **SR400**
  - \( \lambda_c \) 0.80mm Gauss

- **Filter Type**
  - \( \lambda_c \) Type
  - 2CR
  - Gaussian
Instructions

Instruction Menu

**Measurement Length**
Tap the “Measurement” icon to edit the length.

**Range**
Tap the “Range” icon to edit the range.
Instructions

Instruction Menu

ISO 4287
Tap “ISO 4287” to select parameters.

ISO 13565
Tap “ISO 13565” to select parameters.
Instructions

Instruction Menu

ASME B46.1
Tap “ASME B46.1” to select parameters.

Others
Tap “Others” to select parameters.
Tap “ISO 4287” and then the first “Settings” icon to open the “Rmr” settings.
Instruction Menu

Parameter Setting – “Mr%”

Tap “Mr%” and then the box where the number is displayed to adjust the setting.
Instructions

Instruction Menu

Parameter Setting – “Mr%”

Tap “Mr%” and then the “Offset” box to adjust the setting.

Tap “+/-” icon to select between positive and negative.
Parameter Setting – “Meanline”

Tap “Meanline” to adjust the setting.

Tap “+-” icon to select between positive and negative.
Instructions

Instruction Menu

Parameter Setting – “Rpc”

Tap “ISO 4287” and then the second “Settings icon to adjust the “Rcp Bandwidth”.
Instructions

Instruction Menu

**Units**

Tap “Units” to select between “Metric” and “English”.

---

**SR300 and SR400 Surface Roughness Tester**

**Starrett**

**PRECISION, QUALITY INNOVATION**
Instructions

Instruction Menu

Storage

Tap “Store” and then “Store Mode” to select which storage option you require.
New Batch
Tap “Store” and then “New Batch” to create a new batch.

Enter a “Batch Name” and tap “Save”
• The Name must be 5 digits or less.
Instructions

Instruction Menu

Keyboard
Tap “Keyboard” icon to switch between the two keyboard values.

Tap “Number” or “Symbol” icons to enter either numbers or symbols in the “Batch Name”.

SR300 and SR400 Surface Roughness Tester

Starrett®
PRECISION, QUALITY INNOVATION
Instructions

Instruction Menu

View Batch
Tap “Store” and then “View Batch” to view all saved data.

Tap the “Batch Name” to view the data in more detail.
Delete Batch
Tap “Store” and then “Delete Batch” and then select a batch.
Tap the “Trash” icon to delete the selected batch. Tap the “Trash” icon again to confirm the deletion of the batch.
Print Batch
Tap “Store” and then “Print Batch” to view all saved batches.

Tap the “Batch Name” and then the “Print” icon to print the batch.
Print
Tap “Print Settings” to select your required printing options.

This icon shows that a printer is connected to the device.

Tap the “Printer” icon on the home screen to print the measurement.
Language
Tap “Advanced” and then “Language” to select which language you require.
**Sleep Timer - Battery**

Tap “Advanced then “Power Saving” and then “Sleep Timer”.
Select “Battery” and set a time as the battery sleep timer.
Sleep Timer - Charging
Tap “Advanced” then “Power Saving” and then “Sleep Timer”. Select “Charging” and set a time as the charging sleep timer.
SR300 and SR400 Surface Roughness Tester

**Instructions**

*Instruction Menu*

**Brightness**

Tap “Advanced” then “Power Saving” and then select “Brightness”.
Set the brightness to the percentage you require.
Battery Level

Tap “Advanced” then “Power Saving” and then select “Battery Level” to view the current battery level of your device.
Instructions

Instruction Menu

Stylus Return
Tap “Advanced” and then “Stylus Return” to select which option you require.
Instructions

Instruction Menu

Set Zero

Tap “Advanced” and then “Set Zero”. Then place unit on a flat surface and press measure. This will center the gage range.
SR300 AND SR400 - SURFACE ROUGHNESS TESTER
USER GUIDE

THE L.S. STARRETT COMPANY
121 Crescent Street
Athol, MA 01331
starrett.com

SR300 AND SR400 USER MANUAL
Form 980
PDF 11/13
Specifications subject to change.