

# Surface Roughness Tester:

## General information about ADSR-600 Surface Roughness Tester:

The ADSR-600 portable roughness measuring instrument is a portable stylus surface roughness shape measuring instrument, applicable to the workshop testing station, laboratory, metrology room environmental detection. Measurement of parameters in line with international standards of the United States, Germany, Japan and is compatible with Britain and other industrial developed country standards. Measurement results can be digital and graphic LCD display, also can be output to the printer.



## Functions and features:

- Electromechanical integration design, small volume, light weight, easy to use
- Using DSP chip to control and data processing, high speed, low power consumption
- Large range, parameters Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx
- 128 x 64 OLED dot matrix display, digital / graphic display; highlight no perspective
- Display information rich, intuitive, can display all the parameters and graphics
- Compatible with ISO, DIN, ANSI, JIS national standards
- Built-in lithium ion rechargeable battery and a charging control circuit, high capacity, no memory effect
- Residual quantity indicator icon, prompting the user to charge
- Display of the charging process instructions, the operator can understand the degree of charge
- Working time more than 20 hours of continuous work
- Large capacity data memory, can store 100 groups of original data and waveform.
- Real-time clock settings and display, convenient data recording and storage
- With automatic dormancy, automatic shutdown and power saving function
- Reliable control motor to go dead circuit and software design
- Measurement information display, menu prompt information, false information and switch machine and other tips that information
- Full metal shell design, sturdy, compact, portable, high reliability.
- Can be in English freely switch
- Can be connected to a computer and printer
- Optional sensor surface, hole sensor, measuring platform, sensor, an extension rod and other accessories.



## Technical specification of the device:

### Standard configuration:

- Main body:1
- Standard sensor:1
- Reticle temp-let:1
- Template support :1
- Movable support:1
- Power adapter:1
- USB charging cable :1
- instrument container:1
- The Stand for TMR200 for optional

### The performance index of sensor:

- The detection principle:Current induction
- Measuring range:160  $\mu\text{m}$
- Tip radius 5  $\mu\text{m}$
- Tip material:Diamond
- Stylus force 4mN(0.4gf)
- Stylus angle:90°
- The guide head vertical radius 45mm

### Item Description:

- The maximum driving trip 17.5mm/0.7inch
- Indicating error:Not more than  $\pm 10\%$
- Variation of indication Not more than 6%
- The measured profile Roughness, waviness, the original contour
- Parameter:Ra ( 0.005 $\mu\text{m}$  ~ 16 $\mu\text{m}$  ) ,Rz ( 0.02 $\mu\text{m}$  ~ 160 $\mu\text{m}$  ) ,Rq, Rt, Rp, Rv,
- R3z, R3y, RzJIS,
- Rsk, Rku, Rsm, Rmr, Rx.
- Filter:RC,PCRC,Gauss,ISO13565
- The sampling length L 0.25mm,0.8mm,2.5mm,8mm
- Evaluation length L:(1-5)l
- Internal storage capacity 100 groups of original data
- External input / output interface:USB
- Electric sourceBuilt-in rechargeable lithium ion battery or external power
- Adapter
- Outline dimension:
  - 143 x 55 x 42mm (host).
  - Weight: about 0.4KG (host).

