

TR 410 Mini Portable Roughness Tester



PRODUCT INTRODUCTION

The TR 410 Mini portable roughness tester is a new generation of portable surface roughness tester introduced by our company. It has the characteristics of high measurement accuracy, wide measurement range, simple operation, easy portability and stable operation. It can be widely used in the detection of various metal and non-metal processing surfaces. It is a mini pocket instrument integrated with the sensor, and can be used for measurements for long time. It is very handy, and is most suitable for use at production site. It can be display measurement in value, wave from and vonversions at one go.

FEATURES

- The exterior is designed by drawing aluminium die, which is durable and has remarkable anti-electromagnetic interference ability, and conforms to the new trend of design today.
- Low-power consumption ARM processor is used for data processing and calculation, which greatly improves the speed of measurement and calculation.
- The display LCD adopts 2.4 inch IPS TFT, with high brightness and no visual dead angle, which is suitable for various occasions.
- Built-in lithium-ion rechargeable battery and charge control circuit, high capacity, non-memory effect. It can work for a long time with one charge
- The automatic shutdown function and low-power software and hardware design make the instrument work for a long time, which is suitable for all kinds of field use.
- The sensor probe has a protective door, which effectively protects the sensor probe and ensures the accuracy of measurement.

TECHNICAL PARAMETERS

Technical Parameters	
Measurement parameters (μm)	Ra, Rz, Rq, Rt, Rp, Rv, Rc
Stroke length(mm)	5.6
Sampling length(mm)	0.25, 0.80, 2.50
Evaluation length(mm)	1.25, 4.0
Measuring range (μm)	Ra, Rq, 0.05 10.0, Rz, Rt, Rp, Rv, Rc, 0.1 to 50
Indication error	$\pm 10\%$
Repeatability	$< 6\%$
Angle of sensor stylus tip	$90^{\circ} +5^{\circ} -10^{\circ}$
Tip arc radius	$10 \mu\text{m} \pm 1 \mu\text{m}$
Sensor guide head pressure	$\leq 0.5\text{N}$
Battery	Lithium-ion Rechargeable Battery
Size	73 mm×28 mm×62 mm
Weight	220g
Working environment conditions	Temperature: $-20^{\circ}\sim 40^{\circ}$ Relative humidity: $< 90\%$, No Vibration and corrosive medium around

CONFIGURATION LIST

Sr. No		Quantity
1	Roughness tester host	1
2	Test block	1
3	Manual	1
4	Certificate	1
5	Charging cable	1
6	Instrument box	1