

Spring Tension Tester



Contact us

Mikrosize Precision Instrument Co.,Ltd

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: www.mikrosize.com

Email: mikrosize@mikrosize.com



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Product Feature & Application

Product Feature

- Liquid crystal display, better human-machine interface.
- High precision and high resolution
- Three measurement units (N, kg, lb) can be selected and converted to each other.
- The user can set the acceleration of gravity at the place of use to make the test and unit conversion more accurate.
- Stores 99 sets of test data, which can be viewed and deleted directly on the machine.
- Real-time, Peak and Auto Peak modes can be switched at will.
- With customer setting function, the upper and lower limits are set freely (corresponding to the sound and light alarm), the stored value, the hold value, the automatic peak value, the storage time, the no-operation automatic shutdown time, etc., are set freely.
- Print the stored test data and the maximum value, minimum value, average value, to do pass or fail judgement (only with a printer)
- Communication adopts MODBUS-RTU standard protocol and USB interface for better connection with configuration and PLC.

Product Application

- It is mainly used for spring performance testing, meeting the tension spring, compression spring, disk spring, spring, leaf spring, spring, composite spring, gas spring, die springs, special-shaped springs, wave spring, shrapnel, heterosexual spring, diaphragm spring, damping spring, coil spring and other precision spring's tension, stress, displacement, stiffness and strength test and analysis.

Technical Specification

Model									
Max test force	10N	20N	30N	50N	100N	200N	500N	1000N	2000N
Accuracy class	Class 1								
Test force resolution(N)	0.001							0.1	
Platen Diameter(mm)	34			49			108		
Displacement scale travel(mm)	60			90			150		
Displacement scale divisions	0.01mm								
Testing force measuring range	1~100%F.S								
Distortion value error	$\leq \pm(50+0.15L)\mu\text{m}$								
Displacement resolution	0.01mm								
Compression stroke(mm)	80			150			200		
Pressure pate diameter(mm)	$\Phi 34$			$\Phi 49$			$\Phi 108$		
Test force indication relative error	$\leq \pm 1\%$								
Power	220V/50Hz, 20W(With Printer),13W(Without printer)								
Operating Temperature	$20\pm 10^{\circ}\text{C}$								
Storage Temperature	$-27^{\circ}\text{C}\sim +70^{\circ}\text{C}$								
Relative Humidity	15%~80%RH								

Packing List

Name	Quantity
Machine Mainframe	1 Set
Power Cord(European Standard optional)	1 PC
Hexagon socket head cap screw:M6*14 M4*10	2 PCS ea.
Hexagonal spanner:4/6	1 PC ea.
Gantry Handle bar (with handle ball)	1 Set
Button Battery	1 PC
Trimming device (full thread)/Medium range hook set	1 Set ea.
Printer(Optional)	1 PC
Communication Data Cable-USB-USB	1 PC
Compact Disc	1 PC
Desiccant	1 PC
Instruction Manual	1 Copy
Product Certificate, Warranty Card	1 Copy ea.