

Mikrosize®

iShore-100 Shore Hardness Tester



Video



Contact us

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Product Features and Application

Product Features

- Multiple Measurement Types: Equipped with various types including A, C, D, B, OO, DO, etc., it can adapt to material measurements across different hardness ranges, suitable for everything from soft rubber to rigid plastics (The picture shows A type indenter);
- Precise Measurement: With a measurement accuracy of $\leq \pm 1H$, it complies with standards such as GB/T531, ISO7619, and ASTM D2240, enabling accurate measurement of material hardness;
- Easy Operation: The operation interface is simple, with clearly defined functions such as power/back key, confirmation key, and up key, making it easy to get started and operate;
- Convenient Data Management: It can store up to 500 sets of readings, featuring functions such as browsing, deleting selected or all data, and uploading data to a computer for convenient data management and analysis;
- Flexible Test Settings: Offering multiple test modes such as average mode, maximum value mode, and timer mode, it allows setting the number of tests, as well as setting tolerances and eliminating gross errors, meeting various testing needs.

Product Application

- Rubber Industry: It is used to measure the hardness of various rubber products such as soft rubber, natural rubber, medium-hard rubber, and hard rubber to ensure that product quality meets standards;
- Plastics Industry: It can measure the hardness of plastic products with different hardness levels, including thermoplastic elastomers, flexible acrylics, thermosetting plastics, and rigid plastics, to control their quality;
- Leather Industry: It is suitable for testing the hardness of leather, aiding in the assessment of leather quality and performance;
- Textile Industry: It can be used to measure the hardness of materials such as medium-density textile windings and low-density textile assemblies, assisting in quality control during the production process;
- Materials Research Field: When researching new types of rubber, plastics, and other materials, it is used to measure the hardness characteristics of the materials.



Button Function



1.Power/Back Button (Long press to turn off, short press to return)

2.Confirm Button

3.Up Select Button

4.Down Select Button



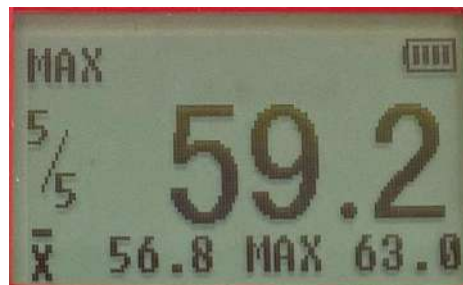
Interface Display



Mean Value Mode



Maximum Value Mode

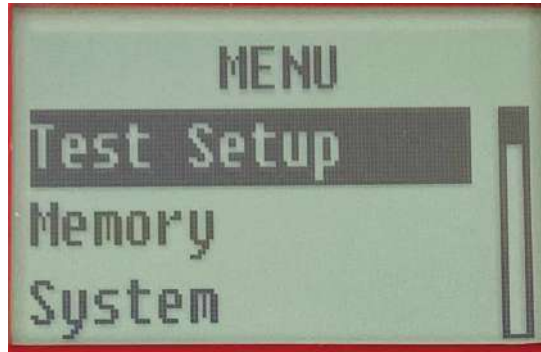


Timer Mode



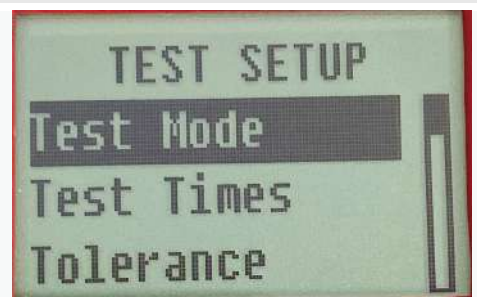
1. Battery Level 2. Hardness Value 3. Mean Value 4. Number of Test Points
5. Test Mode: Mean Value Mode / Maximum Value Mode / Timer Mode
6. Maximum Value

Setting Interface

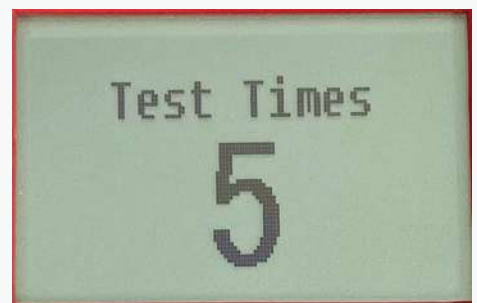


The test settings can be configured for: test mode, number of tests, tolerance settings, gross error, and workpiece number;

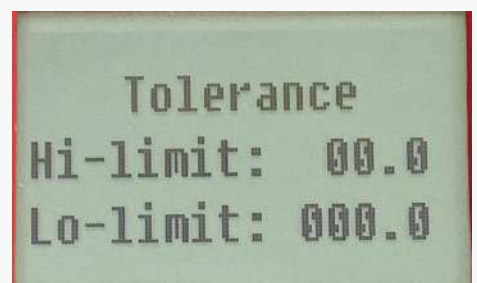
There are three test modes: Average Mode, Maximum Mode, and Timer Mode.



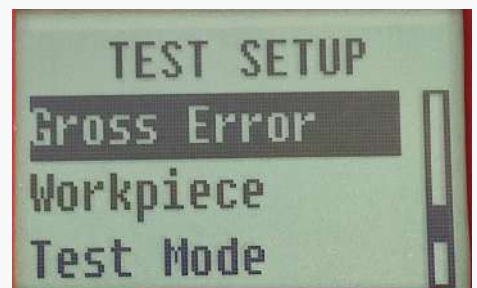
The maximum number of tests can be set to 9; adjustments can be made based on actual conditions to facilitate measurements of different numbers of test points.



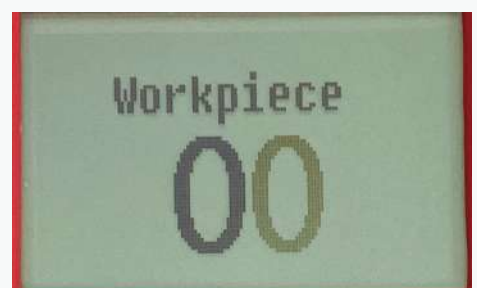
Upper and lower tolerance limits for hardness values can be set. When a measured value exceeds the set range, an "!" mark will be displayed, and if the alarm sound is set to "ON", an alarm sound will also be emitted.



When this function is enabled, the system can automatically eliminate gross error data caused by operation or other reasons based on the Grubbs criterion. This function is only effective in Average Mode and Average-Maximum Mode, improving the accuracy of measurement data.



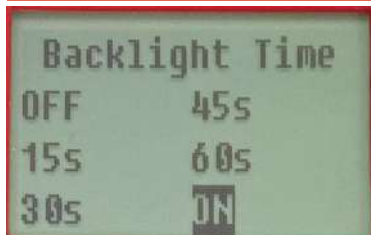
Workpiece Number: When conducting multiple sets of sample tests, each set can be numbered for easy data management by the user. The numbering range is 0~99.



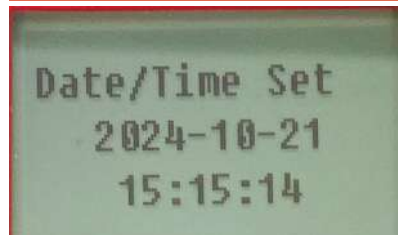
Setting Interface



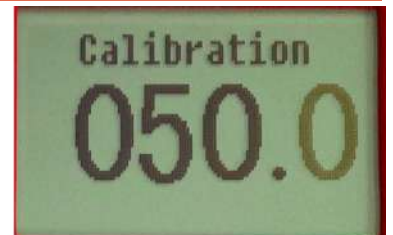
Backlight



Date & Time



Calibration



● Backlight Duration:

Off: The backlight turns off automatically after 15s, 30s, 45s, or 60s of inactivity. Press any key to restore backlight illumination.

On: The backlight remains on constantly.

● Keypad Tone Switch

● Alarm Switch

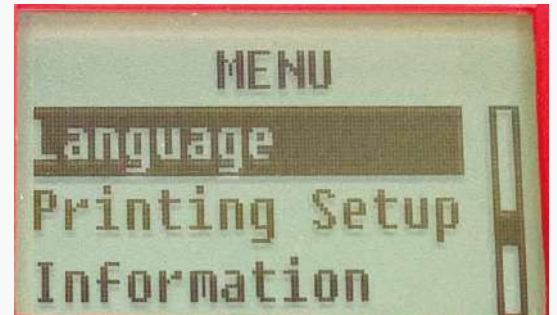
● Date & Time

● Calibration: After performing the calibration operation, enter the calibration block value on the interface to complete the calibration.

Setting Interface

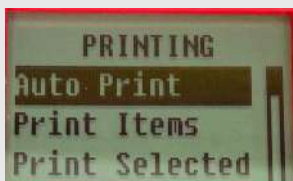
Language Selection

Users can select "Chinese" or "English" according to their needs

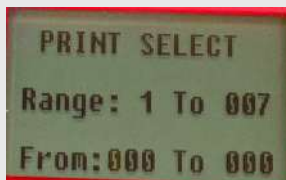


Print Setting

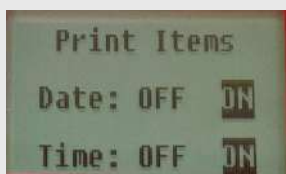
Users can print test reports via a wireless printer;



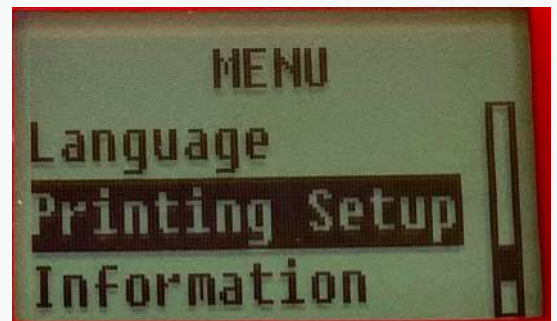
● Automatic Printing: By enabling automatic printing, a test report will be automatically printed after each set of tests is completed;



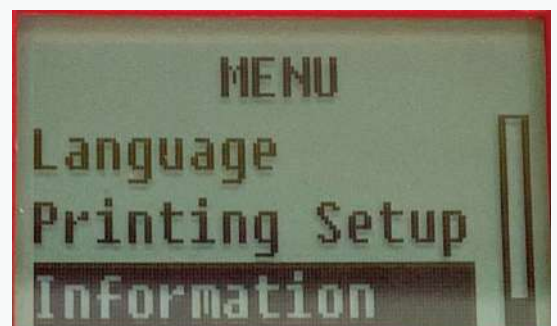
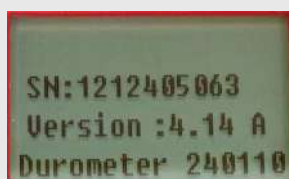
● Print Selection: Data printing is based on the sequence number range selected by the user;



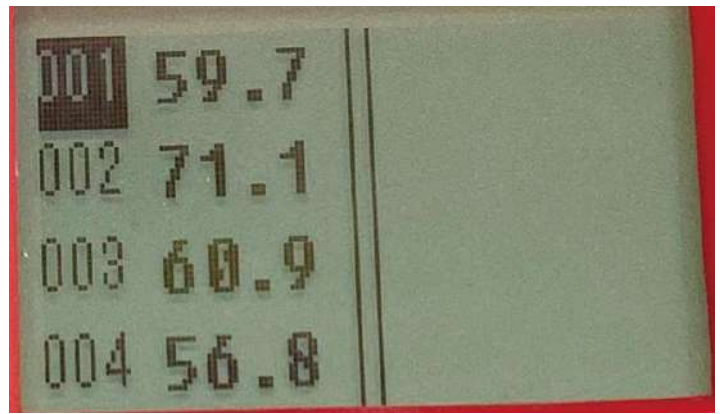
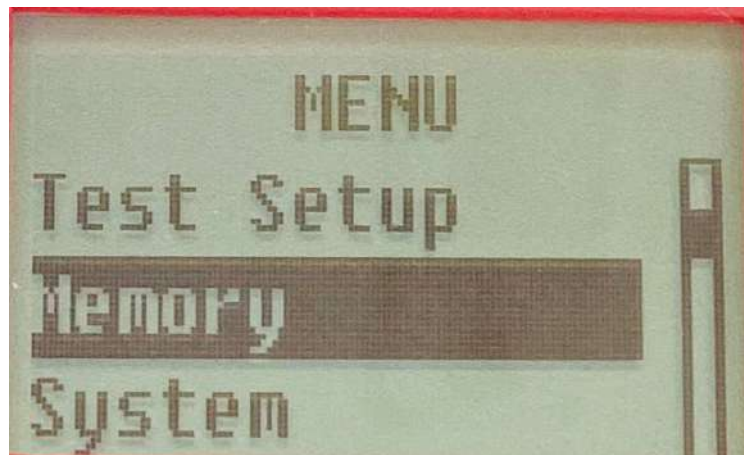
● Print Items: Choose whether to include the date and time in the printed test report.



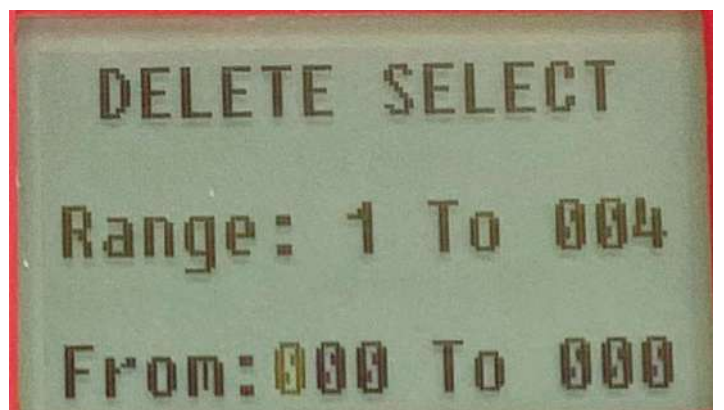
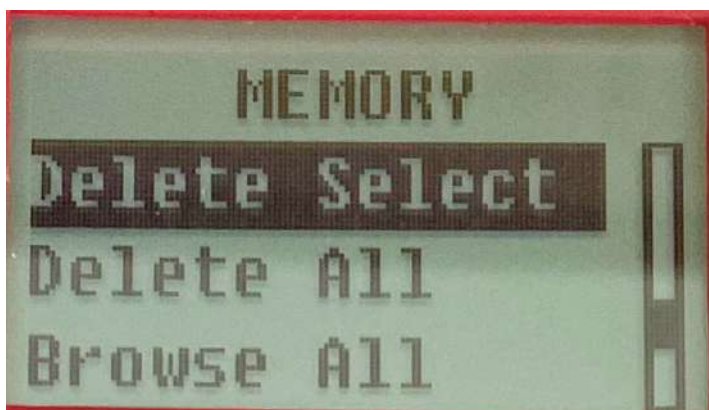
Information Viewing



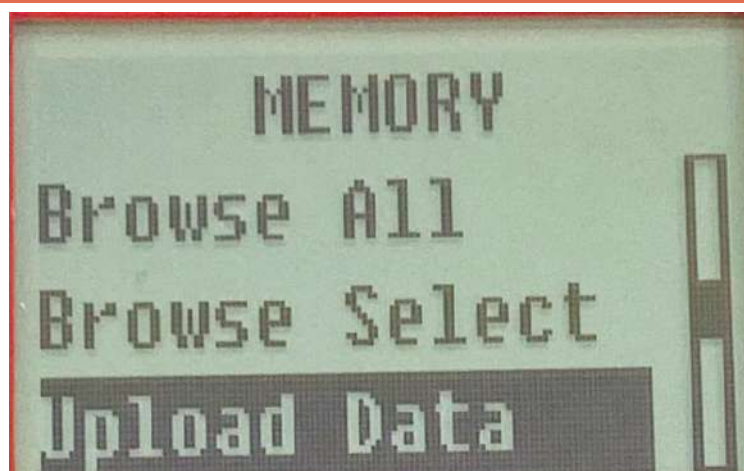
Storage Function



Data Browsing



Data deletion







Data upload






Through the USB cable, the data in the instrument can be uploaded to the computer software, which can export Excel and CSV files

Technical Parameters

Accuracy		≤ ± 1 H	
Resolution		0.1H	
Measuring Mode		AVE, MAX, Timing	
Display		128*64 dot matrix LCD with Backlight	
Memory		500 readings	
Communication		USB to PC	
Power		Ni-MH Chargeable Battery	
Operating Environment		-10 to 40°C, 20 to 80%RH	
Dimensions		150X50.5X29mm	
Weight		170g	
Indenter	A		Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers
	C		Medium-hard rubber, thermoplastic elastomers, medium-hard plastics, and thermoplastics
	D		Hard rubber, thermoplastic elastomers, harder plastics, and rigid thermoplastics
	B		Moderately hard rubber, thermoplastic elastomers, paper products, and fibrous materials
	E (Asker C)		Soft rubber, sponges, and foam elastomer material, and film coil and winding (textile yarn spindle)
	OO		Soft rubber, thermoplastic elastomers, very soft plastics and thermoplastics, medium-density textile windings
	O		Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, low-density textile windings, human and animal tissue
	DO		Moderately hard rubber, thermoplastic elastomers, and very dense textile windings

Standard Delivery

Items	Qty	
Main unit	1	
Charger	1	
Cable	1	
Standard thickness block	1	
Manual	1	
Certificate	1	
Instrument box	1	

Optional Delivery

Items	Qty	
Mini printer	1	
Test stand	1	
A type hardness test block	1	
D type hardness test block	1	