iShore-100 Shore Hardness Tester

Instruction Manual



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Contents

1.Overview 1

1.1Specifications 1

1.2Models & Applications 1

2.Menus 3

2.1 Menu Setup 3

2.2 Menu Structure 3

3.Test 4

3.1 Specimen 4

3.2 Test Mode 4

3.3Test Procedure 5

3.4 Browse Data 5

3.5 Data Printing 6

3.6 Upload Data 6

4.Calibration 7

1.Overview

1.1Specifications

□Range: 0~100H

□Accuracy: ≦ ±1H

□Memory"500 readings

□Power"Ni-HM rechargeable

□Communication: USB

□ Envirement"0℃~+50℃, 20%~85%RH

□Dimesion"153*50*29 mm

□Weight"170 gr

1.2Models & Applications

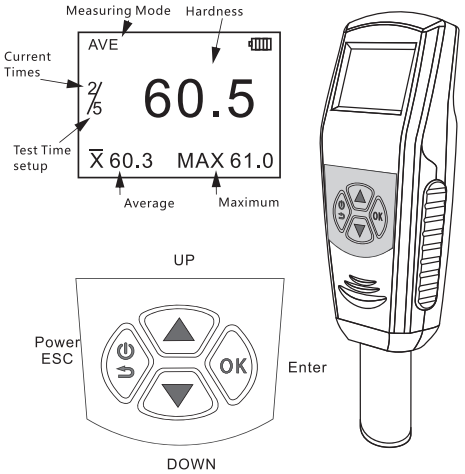
Models	Type	Indenter	Applications
EHS1A	A		Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers
EHS5C	C		Medium-hard rubber, thermoplastic elastomers, medium-hard plastics, and thermoplastics
EHS5D	D		Hard rubber, thermoplastic elastomers, harder plastics, and rigid thermoplastics
EHS1B	B		Moderately hard rubber, thermoplastic elastomers, paper products, and fibrous materials

1.Overview

EHS1E	E		Medium density textile windings,soft rubber, foamed elastomers,wound threads (yarn packages)
EHSoo	OO		Soft rubber, thermoplastic elastomers, very soft plastics and thermoplastics, medium-density textile windings
EHSo	O		Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, textile windings
EHSdo	DO		Moderately hard rubber, thermoplastic elastomers, and very dense textile windings

Digital Durometer

User's Manual



2. Menus

2.1 Menu Setup

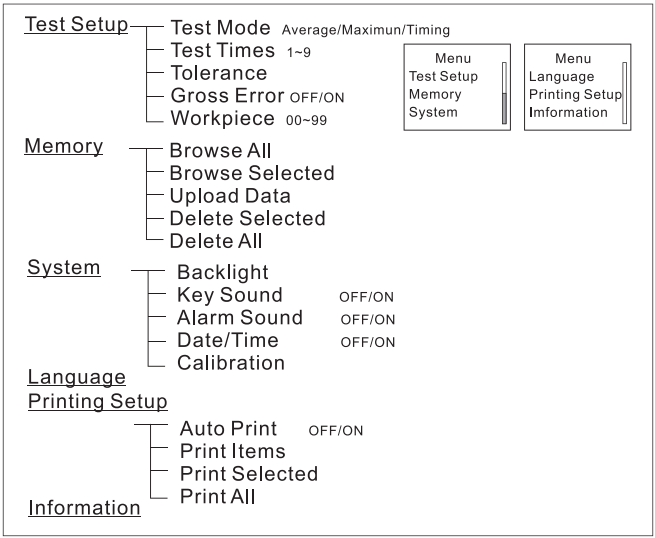
Cancel or Return to the previous menu

OK Enter or Selected and/or Confirm the setup

Move upward, Increase numerical

Move downward, Reduces numerical Moving to the next digit

2.2 Menu Structure



3. Test

3.1 Specimen

●The surfaces of the specimen shall be flat and parallel over an area to permit the presser foot to contact the specimen over an area having a radius of at least 6.0 mm from the indenter point.

●The specimen shall be suitably supported to provide for positioning and stability.

●The specimen shall be at least 6.0 mm in thickness unless it is known that results equivalent to the 6.0mm values are obtained with a thinner specimen.

●The lateral dimensions of the specimen shall be sufficient to permit measurements at least 12.0 mm from any edge.

3.2 Test Mode

There are three kind of modes:

Average mode(AVE), maximum mode (MAX) and Timing mode (☑).

AVE:To calculate the hardness value with the average indentation depth.

MAX:To calculate the hardness value with the maximum indentation

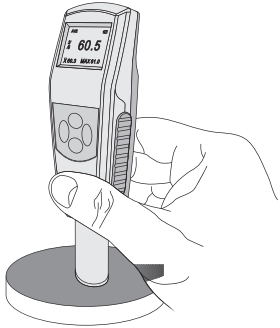
Timing:To calculate the hardness value with the maximum indentation depth.

3. Test

3.3 Test Procedure

●To press the indenter onto the surface of specimen and make sure the presser foot is contact closely to it.

●When the data is stable, the buzzer will make a sound and the value will be shown until the next measuring.



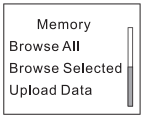
3.4 Browse Data

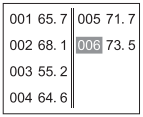
The measured value, mean and maximum vale can read on LCD.

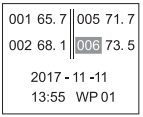
And can browse the historical data in memory.

The data in memory are the average of every statistic group.

Enter Menu-Memory, select Browse All or Browse Select.







Press or to move cursor selecting data.

Press can display the detail (Date/time, work piece number)

3. Test

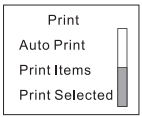
3.5 Data Printing

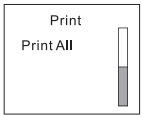
The test report can be print to use EPX-58P wireless printer. You can set the AutoPrint to ON, or print the historical data in memory by Print All and Print Select.

The print items can be chosen in Print Items.

Turn on the printer, put it near the durometer (not more than 2m away). If Auto Print is set to ON, When a group of test is finished the report will print automatically.

Select Print Select or Print All, Press OK to print data.







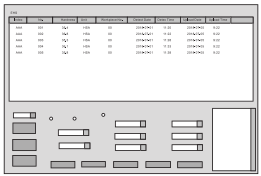
3.6 Upload Data

Data in memory can upload to PC.

Connect the tester to PC via the USB cable,run EHS Data Logging Software on PC side .

Enter Menu-Memory, select Upload, then press OK

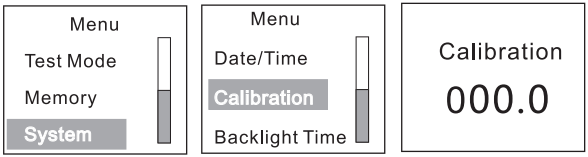




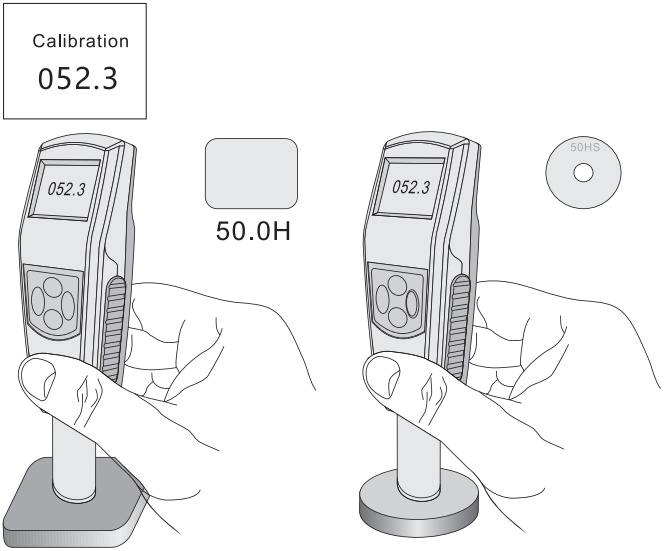
4. Calibration

For a long-term use or other reasons, some measurement error may occur. The error can be eliminated by calibration.

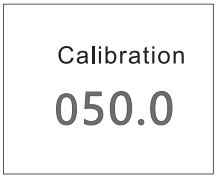
Enter Menu-System-Calibration



Test on a standard hardness block or a standard thickness block.



4. Calibration



Press ▲ to adjust the numerical

Press ▼ to move the digit

Chang the data displayed to the standard value(here is 50.0H)

Press OK to confirm the calibration

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