



250 Gibbs Road • Islandia, NY 11749
Tel: (631)582-8440 • Fax:(631)582-8487
E-Mail: Sales@flexbar.com
Web Site: <http://www.flexbar.com>

Digital Shore Durometers

Model No. 18880 & 18881



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Front Panel Description:



Specifications:

Display: 4 Digits, 10mm LCD

Range: 10-90 HA (HD)

Resolution: 0.1HA (HD)

Measurement Deviation: error <+/-1ha (HD)

Power Supply: 4 x AAA Battery

Operating Condition: Temp. 32-122°F

Size: 162mm x 65mm x 28mm

Weight: 170g

- 3-1 Sensor
- 3-2 Display
- 3-3 Power/Menu
- 3-4 Max Hold Key
- 3-5 Zero Key
- 3-6 N/Average Key
- 3-7 Battery Compartment
- 3-8 Calibration

1) Operation:

Function setting: Maximum value display

Press the **MAX** key and MAX will be displayed on the LCD screen. During usage of this function, it is necessary to manually reset for every test. Press the MAX key a 2nd time to terminate this function.

Average value and test times

Press the **N/AVE** button and AVE will be displayed on the LCD screen. In order to set the amount of tests to perform for average, you need to press the N/AVE button until you scroll across your desired number of tests. You can choose any number between 3-9. Once selection has been made, press the Zero button. Now press the MAX button and Max and a number 1 will be shown on the display. Take test #1 and the max value will be shown on the display. Press the Zero button and take the next test. Continue doing this until you reach your preset number of tests and the unit will automatically display the average of those tests. The average value calculation is derived from maximum values only.

Hardness test verification/manual testing:

First, switch on tester. The hardness value displayed should read "0". If any other value is displayed, press the Zero button to clear. To check accuracy, manually place the indenter of the gage on a glass sample. Slowly press the gage down until the foot of the gage is flat on the surface for 1 second. At that time, the reading should be Approx. 100ha (100hd for PHT-975).

Simple Calibration:

Power unit on. If the unit is not showing 00, Press the 3-5 Zero button. After reading stabilizes, Place the indenter onto a flat piece of glass and apply enough force to make firm contact between the glass and the presser foot.

The reading should be between 99.5 and 101.

If the reading does not fall within this range, press the “CAL” button while holding firm pressure against the glass and it will automatically calibrate itself. After calibration has been confirmed, release the cal button.

Make sure display shows 00 and you can begin testing.