MODEL DD-4-W ACCESORIES

TEST BLOCK KITS



This kit contains color-coded rubber test blocks of various durometer hardness values.
It is housed in a convenient, rigid custom-fit protective box.

Available in all Durometer Types.

Model TBK-A

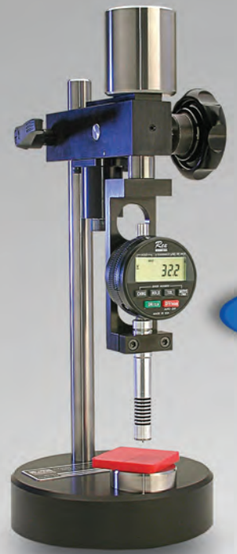
OPERATING STANDS



A convenient and accurate way to provide repeated hardness tests. Eliminates human error.

Model OS-1

Used for Types
A, D, B, C, DO, O, OO, OOO, E



Model OS-2H

Used for Types A, B, O, E



Model OS-4H

Used for Types 00, 000



Model OS-3

Used for Type M only



USB Data Output Cable
Model G13-0055



O-Ring Fixture Set also available.

QUICK REFERENCE GUIDE

Rex Gauge company has been specializing in quality durometers for over 60 years. Rex Durometers are known World-Wide for their quality, dependability, and accuracy. Except where noted, all gauges comply with ASTM D-2240. Most gauges are available in A, D, B, C, DO, O, OO, OOO, M, E and R. All are in stock and ready for immediate delivery. Custom designed hardness/softness gauges and operating stands, along with many accessories, are available.

DUROMETER TYPES

TYPE A (ASTM D2240)
Soft rubber, plastics and elastomers, printer's rolls, tires.

TYPE D (ASTM D2240)
Hard rubber and plastics such as thermo plastics, flooring and bowling balls.

TYPE B (ASTM D2240)
Harder elastomers and plastics. Paper and fibrous materials. Use above 93 Duro A.

TYPE C (ASTM D2240)
Medium hards elastomers and plastics. Also useful to avoid surface marks.

TYPE DO (ASTM D2240)
Dense granular material, textile windings.

TYPE O (ASTM D2240)
Very soft elastomers, textile windings, soft granular materials. Use below 20 Duro A.

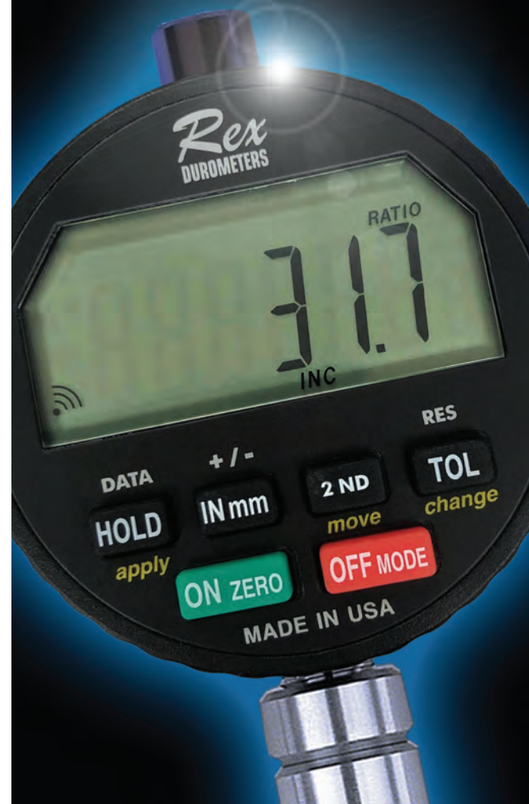
TYPE OO (ASTM D2240)
Light foams, sponge rubber gels, animal tissue.

TYPE OOO (ASTM D2240)
Ultra soft gels and sponge rubber.

TYPE M (ASTM D2240)
Thin, irregularly shaped rubber such as O-Rings (as thin as .050).

The durometer is the international standard for the hardness measurement of rubber, plastic and other non-metallic materials. Durometers are described in the American Society for Testing and Materials specification ASTM D-2240, which is the recognized specification for the instrument and test procedures.

OPERATING MANUAL
Model DD-4-W Digital Durometer



Digital Durometer

Model DD-4-W



Durometer Operating Instructions

To operate the durometer, press the foot of the gauge firmly against the specimen, but not so firmly as to imbed the foot into the surface. This will yield the durometer reading.

Primary Button Functions

ON ZERO Powers durometer on. Zero / clears reading.
a. To Power Durometer On: Press and Release **ON ZERO**
b. To Clear / Zero Display: Press and Release ON ZERO when LCD is on
(Zero in release on button)

OFF MODE Powers off.
a. To Power Durometer Off: Press and Release **OFF MODE**
(Value and settings are not lost when durometer is off)

HOLD Toggles HOLD on and off.
a. To Toggle HOLD On and Off: Press and Release **HOLD**

2ND Enables 2ND Functions (DATA) and 3RD Functions (LOCK)

TOL Toggles TOL (Tolerances) on and off.
a. To Toggle TOL On and Off: Press and Release TOL
If no tolerances are programmed, a large tol will be displayed and both the LOW and HI icons will flash.

b. To Program LOW and HI Tolerances: Toggle TOL On (Step A). Press and Hold TOL until HI is flashing and release TOL. **Use *move* (2ND), *change* (TOL), *apply* (HOLD)** to program HI tolerance. ***Move* (2ND)** scrolls flashing icon left to right. ***Change* (TOL)** toggles value of flashing icon. ***Apply* (HOLD)** stores value HI or LOW.

c. When the value is out of tolerance the numbers will flash and the LOW or HI will flash. If the LEDs are turned on, the green or red LEDs will flash for 2 seconds when in tolerance and 4 seconds when out of tolerance.

d. To Disable / Enable LEDs for TOL: USE the Following 3 Button Sequence
1. Press and Release **2ND**
2. Press and Release **ON ZERO**
3. Press and Hold **INmm** Until Display Changes
(All On, Off, DATA or TOL will be displayed)

Use ***change* (TOL)** to scroll All On (LEDs will flash when using the TOL and DATA), Off (turned off for both TOL and DATA), TOL (turned on for tolerance only), DATA (turned on for DATA only). Use ***apply* (HOLD)** to store desired setting.
Note: Factory reset: *Press and Hold **ON ZERO** and **OFF** simultaneously until RESET appears on LCD.*

2ND Button Functions

DATA

Send data through cable, wireless radio module, or stored readings in durometer.
a. To Send Data or Store Readings
1. Press and Release 2ND
2. Press and Release **DATA (HOLD)**
Cable: If cable is connected, the data will be sent through the data output cable. For 1 second DATA icon will appear.
*Note: USB Data Cable **G13-0055** - Sold Separately*
Wireless: If wireless output is enabled, the durometer reading will be sent by wireless output. For 1 second DATA icon will appear.
Stored Reading: With no cable connection and wireless not enabled, readings will be stored in durometer. For 1 second DATA icon will appear.
Note: A computer can also request readings and you can setup the durometer to automatically send readings over wireless.

b. To View Stored Readings:
1. Press and Release **2ND**
2. Press and Release **ON ZERO**
3. Press and Release **HOLD**. DATA Icon Appears on LCD
4. Press and Release *move* **(2ND)**
5. Repeat step 4 to scroll readings. The newest to oldest reading is displayed.
To Clear Stored Readings: Press and Hold **ON ZERO**
To Exit Stored Readings: Press and Release **DATA (HOLD)**

3RD Button Functions

LOCK

Locks Buttons/Functions/Settings. 3 button push can disable / enable lock.
3 digit lock Combination can be entered for additional security.
a. To Enable / Disable Lock
1. Press and Release **2ND**
2. Press and Release **ON ZERO**
3. Press and Release **TOL** A Lock Icon Appears on LCD

b. To Program Lock Combination
1. Press and Release **2ND**
2. Press and Release **ON ZERO**
3. Press and Hold **TOL** Until 000 Appears and SET is Flashing
Use the ***move* (2ND), *change* (TOL)** and ***apply* (HOLD)** to program 3 digit combination. ***Move*** scrolls flashing icon from left to right. ***Change*** toggles the value of the flashing icon. ***Apply*** enters 3 digit combination. Enable functions you want to use before locking durometer. Example: Using MAX HOLD, Turn the Max hold on before you lock. Lock function will lock out all functions that are not turned on. Functions that cannot be locked include OFF, ON, ZERO.
Note: Master Combination 285 (If Combination is Lost)

Wireless Communication

Radio Menu

Allows for enabling of the radio interface as well as control over the measurement update rate.

a. To Enter Radio Menu
1. Press and Release **2ND**
2. Press and Hold **HOLD**
3. You will see radio displayed

b. To Exit Radio Menu
1. Press and Release **ON ZERO** or **OFF MODE**

Enable Radio / Set Update Rate (off, 0, 0.5, 1, 5)

The update rate is how often the measurement is transmitted over wireless in Hz.
Off – Will Disable the radio
0 – Will Disable automatic Transmission (Only Sent with DATA Button)
0.5 Hz – Update Every 2 Seconds
1 Hz – Update Every Second
5 Hz – Update 5 Time/Sec

Radio Menu

a. Configure Radio (In Radio Menu)
1. Press and Release ***change* (TOL)** to Cycle
2. Press and Release ***apply* (HOLD)** to Enter
(Or Wait 5 Seconds)

b. Disable Radio
1. Repeat Steps Above and Select Off

Wireless Icon

The wireless icon will indicate the state of the radio.
Off – Radio is Disabled
Blinking – Indicates Radio is Enabled and Not Connected to a Device
Solid – Radio is Enabled and Connected

Icons

Lock Functions and Features
Cable Connection
Battery Warning
Wireless Data

Rex Gauge Guarantee

All Rex durometers and accessories are guaranteed for a period of one (1) year against defective workmanship and/or material. This guarantee does not apply to products that are mishandled, misused, etched, stamped, or otherwise marked or damaged. The instrument will be repaired or replaced (at our option) without charge by Rex Gauge Company.

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