

**Starrett®**

Technical Support:  
(201) 962-8352

# Digital Durometers

## *Series 3805*



[www.starrett.com](http://www.starrett.com)

## Operation: 3805B and 3805D

Press the On/Off button to power the unit on.

The hardness value displayed should read “000” HA(HD). If any other value is displayed, press the Zero button to clear. To check accuracy, manually place the indenter of the gage on a calibration block. 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 within +/- 2Ha points of the actual value of your test block.

### Hold Feature:

Follow above procedure and press the H button when taking a test. This will hold that value until you press H again to return to zero.

### Features:

- Measuring range: 0-100 HSA (0-100 HSD)
- Deviation: <1%H
- Resolution: 0.5H
- Digital read out
- Auto Hold feature
- Accurate and repetitive deviation = 20~90HSA  
HSA<+/-1grade
- Uses 1-SR44 Button Cell Battery
- Storage case

### Applications:

#### 3805B (shore A)

**Rubber:** Soft vulcanized (ie tire), natural nitrile

**Elastomeric materials (rubber & rubber like):** GR-S, GR-1, neoprene, thiokol, flexible polyacrylic esters  
neoprene, thiokol, flexible polyacrylic esters.

**Other:** Wax, felt, leather etc. (materials that normally yield under fingernail pressure, such as the heel on your shoe).

#### 3805D (shore D)

**Rubber:** Hard

**Plastics:** Harder grades such as rigid thermoplastics, plexiglass, thermopolystyrene, vinyl, sheet, cellulose acetate, thermosetting  
Laminates (formica)

**Other:** Paper filled calendar rolls, calendar bowls, etc. (materials that would not normally indent under fingernail pressure, such as a pocket comb or bowling ball).



Figure 1: Battery Change