

# SBS-2002 Digital Hydrometer / Density Meter

Digital Specific Gravity Tester for Lead-Acid Batteries



The SBS-2002 is lightweight, durable and easy to use, making it suitable for use in all industrial environments. Simply insert the nozzle into the battery and depress the finger pump which draws a few drops of sulfuric acid ( $H_2SO_4$ ) through the tube. Within three seconds the measured refractive index is converted into a temperature-compensated specific gravity reading and then both the specific gravity and temperature are displayed.

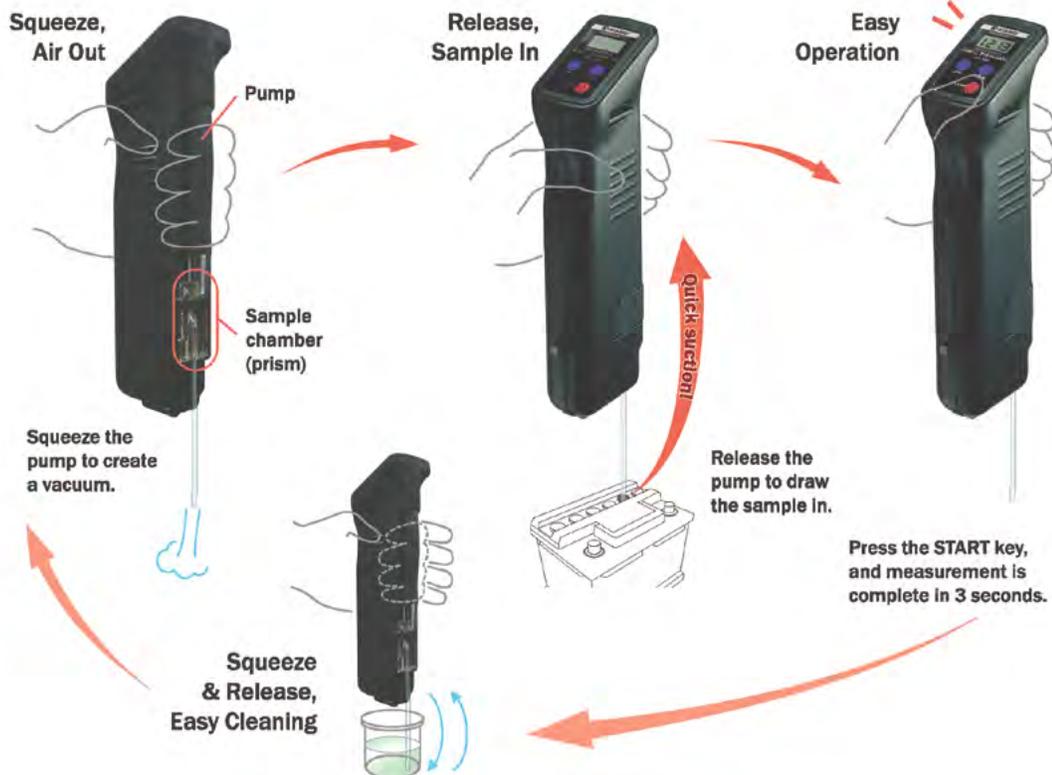
### Features

- $\pm 0.002$  accuracy
- LED display
- For lead-acid batteries only
- IP64 water resistant
- Field calibrate with distilled water

### Benefits

- Time savings — 5 times faster than conventional methods
- Measures specific gravity, ambient temperature and count
- Automatically temperature compensates to 77°F (or 25°C)

### How the SBS-2002 operates



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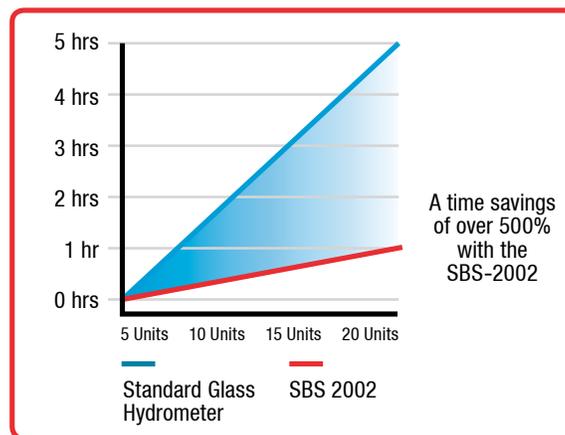
## Example of Cost Savings

Field studies show time savings of at least 5 times (500%) using a digital hydrometer over a standard glass hydrometer and thermometer.

If you spend 60 minutes testing specific gravities every month in 20 sites, this total, 60 minutes x 20 sites x 12 months per year = 14,400 minutes divided by 60 minutes = 240 labor hours per year.

Since we can reduce this time by 500%, 240 hours divided by 5 = 48 hours total time with the SBS-2002.

That's a savings of 192 hours per year. Multiplied by \$45.00 per hour labor cost with benefits: 192 x \$45.00 = \$8,640.00 of savings per year.



### Includes

- Main unit
- Three (3) silicone tubes
- 9V battery
- Adjustable hand strap
- Instruction manual
- Case

### Applications

- Utility
- UPS
- Data Centers
- Telecom
- Material Handling

### Specifications

Measured Items	Specific gravity of sulfuric acid temp. compensated to 77°F (25°C) Temperature of sulfuric acid as electrolyte in lead-acid batteries
Display	LCD; specific gravity and temperature
Measuring Time	Within 3 seconds after pushing "START" button
Measurement Range	Specific gravity: 1.000 to 1.300 Temperature: 41 to 104°F (5 to 40°C)
Measurement Accuracy	Specific gravity: ±0.002 @ 50 to 86°F (10 to 30°C) Temperature: ±1.8°F @ 50 to 86°F (±1°C @ 10 to 30°C)
Resolution	Specific gravity: 0.001 Temperature: ±1°F (±1°C)
Method of Detection	Light refraction system
Size & Weight	2.75" x 1.75" x 8.25"; 0.66 lbs.
Suction Nozzle	9.5"L x 1/8" dia. flexible silicone tube

### Ordering Information

Part No.	Description
SBS-2002	Digital specific gravity tester (Fahrenheit only)
SBS-2002C	Digital specific gravity tester (Celsius only)

### Accessory Ordering Information

Part No.	Description
2002/3-SPR-PRT-KIT	Spare parts kit includes: O-ring, sample chamber w/ rubber pump, (3) 9" sample tubes
2002/3-HOL	Holster w/ belt for SBS-2002