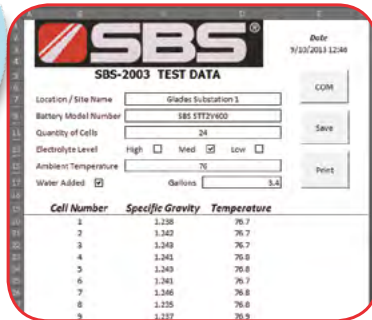


NEW!

SBS-2003 Digital Hydrometer / Density Meter

Digital Specific Gravity Tester with Downloading Capabilities for Lead-Acid Batteries



Data Archive/
Export into Excel

Applications

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

Specific gravity testing has never been this easy. Simply insert the nozzle into the battery and depress the finger pump which draws a few drops of sulfuric acid (H₂SO₄) through the tube. Within three seconds the measured refractive index is converted into a temperature-compensated specific gravity reading and then the specific gravity, temperature and cell count are displayed. Then, you have the ability to transfer the data to your PC or laptop via Bluetooth and download results into Excel.

Combining a light weight and durable design with easy maintenance, field-replaceable spare parts and a large data storage memory, the SBS-2003 is suitable for use in all industrial environments.

Benefits

- Via Bluetooth, wirelessly transfers testing data to supplied Excel template
- Time savings — 5 times faster than conventional methods
- Measures specific gravity, ambient temperature and count
- Automatically temperature compensates to 77°F (or 25°C)
- Stores up to 1000 readings — can export raw data to Excel from template

Features

- **Exclusive to Storage Battery Systems**
- Able to record temp in Fahrenheit or Celsius
- ±0.002 accuracy
- LED display
- IP64 water resistant
- Field calibrate with distilled water
- For lead-acid batteries only

Includes

- Main unit
- Three (3) silicone tubes
- 9V battery
- Adjustable hand strap
- Instruction manual
- Case
- Bluetooth to USB adapter w/software template

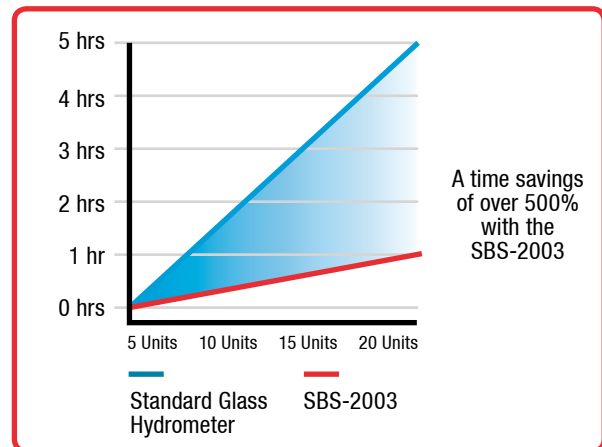
Example of Cost Savings

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-2003.

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.



SBS-2003 Hydrometer Data Transmission

Data Transmitted (in order):

- Counter ##### (0001 through 1000)
- Converted Specific Gravity #.###
- Temperature ##.# (in either °F or °C)

Transmission Standard

- Bluetooth one-way transmission of measured data from hydrometer to PC (via included USB adaptor if necessary).



Instrument Features

- Measurement
 - With the display on, fill the sample chamber and press and release the sample pump. Press the START key. The reading will be displayed on the screen, the data will be recorded, and the counter will automatically advance to the next cell #.
- Allows user to cancel the last reading
- Transmit Readings
- Data Counter Reset
 - Deleting the stored data resets the counter.
- Switch between F and C

Hydrometer/Resistance Tester Package

5 Steps for Easy Data Management & Storage

When combined with our SBS-6000 battery diagnostic tester, the SBS-2003 provides an all-in-one solution for your battery testing needs.

1. Save the readings from the SBS-6000 into the Battery Test Manager Software
2. Open the SBS-6000/2003 data merge worksheet.
3. Select the desired data from the History Archive (The worksheet automatically formats the workbook)
4. Download the SBS-2003 data directly into the merge worksheet
5. Save or Print



SBS-2003 Hydrometer



SBS-6000 Battery Analyzer

Microsoft Excel non-commercial use - SBS6000+SBS2003 Properties

Date: 1/24/2014 8:27

Import SBS-6000

Import SBS-2003

Print

Location / Site Name: 2013-10-15 12:36 48 Volt Telcomm - 2 volt 100 AH

Battery Model Number: []

Quantity of Cells: 24

Electrolyte Level: High Med Low

Ambient Temperature: []

Water Added: Gallons

SBS-6000 Data							SBS-2003 Data		
Index	Voltage [V]	Resistance [Ω]	Reference [Ω]	Difference [%]	Temp [°F]	Status	Cell Number	Specific Gravity	Temp
1	2.163	1.71	2.50	68%	23.8	PASS	1	1.219	72.1
2	2.146	1.60	2.50	64%	23.7	PASS	2	1.220	72.1
3	2.148	1.59	2.50	64%	23.6	PASS	3	1.220	72.3
4	2.141	1.57	2.50	63%	23.6	PASS	4	1.220	72.3
5	2.146	1.58	2.50	63%	23.5	PASS	5	1.221	72.5
6	2.143	1.56	2.50	66%	23.4	PASS	6	1.221	72.5
7	2.141	1.60	2.50	65%	23.3	PASS	7	1.221	72.6
8	2.136	1.65	2.50	65%	23.3	PASS	8	1.219	72.8
9	2.139	1.58	2.50	63%	23.2	PASS	9	1.220	72.8
10	2.140	1.61	2.50	64%	23.1	PASS	10	1.220	73.0
11	2.143	1.59	2.50	64%	23.1	PASS	11	1.220	73.0
12	2.153	1.67	2.50	67%	23.0	PASS	12	1.220	73.2
13	2.148	1.69	2.50	68%	23.0	PASS	13	1.220	73.2
14	2.135	1.65	2.50	66%	22.9	PASS	14	1.221	73.2
15	2.136	1.62	2.50	65%	22.9	PASS	15	1.221	73.4

Data merge worksheet — contains data for SBS-6000 on left with Pass or Fail status.

Hydrometer readings are added directly into the worksheet, on the right. Now, all data for each battery is in one, easy-to-read spreadsheet.

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, temperature, and count
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)
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-2003	Digital specific gravity tester (°F and °C)

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-TUBE	9" sampler tube for SBS-2003
2002/3-HOL	Holster w/ belt for SBS-2003