

SBS-600 Graphical Digital Multimeter with USB PC Interface

High Accuracy True RMS Digital Multimeter and Data Logger with Trend Analysis

The SBS-600 is an industrial graphical digital multimeter and data logger with trend analysis. It will quickly capture data with real-time logging and graphing capabilities and can store up to 10,000 readings with recall ability.

This unit has a large, 50,000 count, 3.5" high resolution display with the ability to zoom on trends to view and analyze captured data. This means you don't need to download the readings to a laptop or PC to detect a trend or recall past readings. PC integration software is included so you can download readings into the provided software or export to Excel.

Benefits

- 600V CAT III DMM / 1000V CAT IV Safety Rating
- Next generation, high performance, graphical digital multimeter
- Large 50,000 count, 3.5" high resolution LCD displays DC Voltage, True RMS AC V
- Efficiency measurement and ripple noise measurement
- Includes real-time PC connection/logging
- Multiple logging sessions possible without download

Power Efficiency Measurement

- Automatically displays efficiency without having to manually calculate
- Measures all power circuit efficiencies, including DC to DC converter and total instrument efficiency readouts
- Range for DC Voltage: 50mV ~ 1000V, DC Current: 500µA ~ 10A

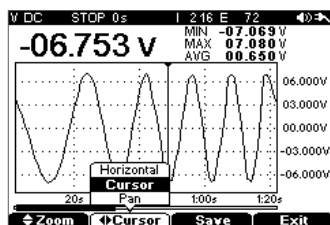


Dual Mode Measurement (Ripple Noise Measurement)

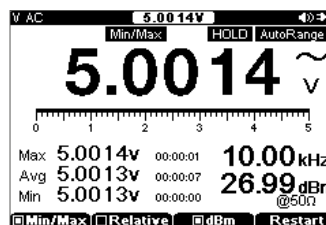
- Measures ripple noise under 100 kHz
- DC voltage and AC voltage measurements displays separately from AC+DC measurement function
- Measures DC voltage and AC voltage in order
- DC voltage measurement range: 5V ~500mV
- Ripple noise frequency displays simultaneously

Data Logger with Trend Analysis

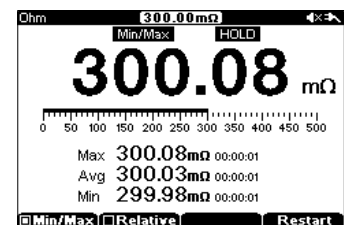
- Plots up to 10,000 recorded readings
- Man-Free Monitoring as well as Trend Capture and Analysis
- The data logger plots at real time stamping
- Internal storage memory can store up to 10,000 records and instantly recall
- Trend Capture and Trend Analysis are available from Complete Mode (Run/Stop, sampling time, accumulated sample qty, measured value scale (max))



Multimeter data logging screen shot



Voltage data logging screen shot



Resistance logging screen shot

Technical Data

DC/AC Voltage Range	50.000mV 500.00mV 5.0000V 50.000V 500.00V 1000.0V
Accuracy	50mV ($\pm 0.05\% + 50$) 500mV–50V ($\pm 0.025\% + 10$) 500V–1000V ($\pm 0.030\% + 10$)
DC/AC Current Range	500.00 μ A 5.0000mA 50.000mA 500.00mA 10.000A
Accuracy	500mA–5.0000mA ($\pm 0.05\% + 10$) 50mA–500mA ($\pm 0.15\% + 10$) 10A ($\pm 0.30\% + 10$)
Temperature (excluding probe)	(–20.0° ~ 500.0° C, –20.0° ~ 1370.0° C) or (–4.0° ~ 500.0° F, –4.0° ~ 2498.0° F)
Accuracy	Dependent on optional temperature probe
Resistance	50.000 Ω 500.00 Ω 5.0000k Ω 50.000k Ω 500.00k Ω 5.0000M Ω 50.000M Ω
Accuracy	50 Ω –500k Ω ($\pm 0.05\% + 10$) 5M Ω ($\pm 0.15\% + 10$) 50M Ω ($\pm 1.00\% + 10$)
Capacitance	5.0000nF 50.00nF 500.0nF 5.000uF 50.00uF 500.0uF 5.000mF
Accuracy	($\pm 1\% + 10$) > 50.00uF ($\pm 2\% + 10$)
Frequency	10.00Hz 100.0Hz 1kHz 10kHz 100kHz 1000kHz
Accuracy	0.005%

	SBS–600	Fluke® 287*	Fluke® 289*
Multiple On–Screen Displays	Yes	Yes	Yes
dBV/dBm	Yes	Yes	Yes
DC mV Resolution	1 μ V	1 μ V	1 μ V
Megaohm Range	Up to 500 M Ω	Up to 500 M Ω	Up to 500 M Ω
Continuity Beep	Yes	Yes	Yes
Battery/Fuse Access	Battery/Fuse	Battery/Fuse	Battery/Fuse
Elapses Time Clock	Real Time PC connection/logging	Yes	Yes
Time of Day Clock	Real Time PC connection/logging	Yes	Yes
Min–Max–Avg	Yes	Yes	Yes
Duty Cycle	0.05 to 95.00%	0.01 to 99.99%	0.01 to 99.99%
Hold	Yes	Yes	Yes
Decibels	Yes	No	Yes
Isolated Optical Input	USB to PC	Yes	Yes
Auto Touch/Hold	Yes	Yes	Yes
Reading Memory	Yes	Yes	Yes
Log to PC	Yes	Yes	Yes
Interval/Event Logging	Yes	Yes	Yes
Logging Memory	10,000 readings	10,000 readings	15,000 readings



SBS–600 Package Includes

- Main body/display
- Pinpoint probes
- Software/USB cable
- Batteries
- Quick start guide

Optional test lead accessory kit



Specifications

Maximum Voltage Terminal to Earth Ground	1000 Vac
Battery Type	6 AA alkaline batteries
Battery Life	80 hours continuous without backlight
Operating Temperature	32° F to 122° F
Storage Temperature	32° F to 158° F
Humidity	80% RH or less (non condensing)
Dimensions	3.9" W x 8.6" H x 2.1" D
Weight	20 oz. / 1.2 lbs. (meter only)
Display	3.5" 240 x 160 pixel graphic mono LCD

Ordering Information

Part No.	Description
SBS–600	Digital multimeter with data logging and software

Accessory Ordering Information

Part No.	Description
600/700–TEST–LEAD–KT	Test lead accessory kit
600/700–CASE	Case for multimeter

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