The SBS-700 scope/meter helps minimize your project risk by providing reliable, accurate data or waveform capture and the complete view of Logic Tools. This comprehensive unit offers a highly accurate multimeter measurement function and additional function on Sig-Out (Generator), Digital Debug (Logic, Serial Bus Protocol with Digital Pattern Generator). This unit includes a case and USB PC Integration software so that you can download your readings into your PC. You can also recall readings and graphs directly from the unit.

Oscilloscope
- 10 MHz bandwidth with max. 50 MS/s real sampling rate
- AC/DC coupling
- Wide direct input voltage – up to 100V/div in 1, 2, 5 steps
- Multiple advanced programmable trigger modes
- Advanced auto-set functions automatically catch and display waveform

Graphical Digital Multimeter
- 50,000 count True RMS 3.5” high resolution display DC V, True RMS AC V, AC+ DC V, DC A, True RMS AC A
- Volts, currents, frequency, resistors, capacitance, diode, continuity, frequency – duty cycle – pulse width, signal out generation, dBm
- Temp., humidity, hi-current, pressure measurement through AUX (external adapters not included)
- Min/max, autorange, (manual) hold, auto hold, peak hold, bar graph display, REL, warning mode, simultaneous multiple display: present measurement, min/max/avg/dbm in real-time stamping

Logic Analyzer
Achieve the fastest logic analyzer control and analysis to maximize your analyzer’s usage. Sets up measurements quickly and easily.
- 8 input channels supported
- Sample rate: maximum 50 MHz per channel
- Peak detection and time measurements supported
- Trigger mode: pattern and duration supported

Protocol Analyzer
- Sample Rate: maximum 50 MHz per channel
- Peak detection and time measurements supported
- Trigger Mode: CAN, LIN, I2C, UART, USB (low/full speed), I2S, SMBus, SPI, DMX512, 1-Wire supported
- Supports trigger condition setup and speed selection if needed

Digital Pattern Generator
An essential feature for digital system development. Digital pattern is automatically displayed on protocol analyzer screen without connecting with the oscilloscope.
- 2 channels (TX, RX) supported
- Baud rate: up to 1 Mbps
- Pattern format: UART, CAN, and user defined
- Supports making and storage of up to 8 patterns including information like interval, repetition and idle condition
- Monitoring mode supported for watching pattern waveform or data transaction
## Technical Data

<table>
<thead>
<tr>
<th>DC/AC Voltage Ranges</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.000mV 500.000mV 5.0000V 50.000V 500.00V 1000.0V</td>
<td>50mV (±0.05% +10) 500mV–50V (±0.025% +10) 500V–1000V (±0.030% +10)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DC/AC Current Ranges</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>500.00µA 5.0000mA 50.000mA 500.00mA 10.000A</td>
<td>50µA–5.0000mA (±0.05% +10) 50mA–500mA (±0.15% +10) 10A (±0.30% +10)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature (excluding probe)</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>(-20.0° ~ 500.0° C, -20.0° ~ 1370.0° C) or (-4.0° ~ 500.0°F, -4.0° ~ 2498.0°F)</td>
<td>Depend on optional temperature probe</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.000Ω 500.00Ω 5.0000kΩ 50.000kΩ 500.00kΩ 5.000MΩ 50.000MΩ</td>
<td>50Ω–5.0000Ω (±0.05% +10) 5MΩ–50MΩ (±0.15% +10) 50MΩ (±1.00% +10)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Capacitance</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0000nF 50.00nF 500.0nF 5.000uF 50.00uF 500.0uF 5.000mF</td>
<td>&gt; 50.00µF (±2% +10)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00Hz 100.0Hz 1kHz 10kHz 100kHz 1000kHz</td>
<td>0.005%</td>
</tr>
</tbody>
</table>

### SBS-700

- Display: 9.5 cm 50,000 count 240 x 160 pixel FSTN
- Bandwidth: 10 MHz
- Number of Inputs: 1
- True-RMS Multimeter: 5000 counts DDM
- Dual Input Trend Plot: Single Input Trend Plot
- Safety Certified: EN6101-1
- Battery (Installed): 8 hours (7.2V NiMH)
- PC and Printer Interface: USB
- Input True RMS Meter: VDC, VAC, VAC+VDC, OHMS, Amps AC, Amps DC, Hz, Continuity, Diode, Capacitance, F/C, dBV, dBm, 8 Channel Logic, 8 Channel Protocol, Pattern
- Trend Plot Recording: Automatic; Displays Pk–Pk, Mean, +Width and Hz
- Real Time Sample: 50 MS/s
- Time Base Range: 100 ns – 50 sec/Division
- Input Sensitivity: 20 mV to 100 V/Division
- Trigger Types: Auto/Normal / Single, Edge / Pulse, Rising / Falling / Alternate
- Scope Measurements: Automatic

### Fluke® 123

- Display: 10.2 cm monochrome LCD
- Bandwidth: 20 MHz
- Number of Inputs: 2
- True-RMS Multimeter: Dual fully featured 5000 counts DDM
- Dual Input Trend Plot: Yes
- Safety Certified: EN6101-1
- Battery (Installed): 7 hours NiMH
- PC and Printer Interface: Optional USB or RS-232
- Input True RMS Meter: VDC, VAC, VAC+VDC, Ohms, Continuity, Diode test, C, F, Capacitance, dBV, dBm, Crest Factor, Touch Hold and Zero Set
- Trend Plot Recording: Automatic Vertical Scaling and time compression Displays the actual Min, Max, Avg Readings
- Real Time Sample: 25 MS/s
- Time Base Range: 10 ns – 1 min/Division
- Input Sensitivity: 5 mV to 500 V/Division
- Trigger Types: Connect & View, Free Run, Single Shot, Edge, Video, External
- Scope Measurements: Automatic measurements: On top

### Specifications

- **Maximum Voltage Terminal to Earth Ground**: 1000 Vac
- **Battery Type**: 7.2V rechargeable NiMH battery pack
- **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)

### Accessory Ordering Information

**Part No.** | **Description**
--- | ---
600/700-TEST-LEAD-KT | Test lead accessory kit

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*SBS is not related to, or affiliated with, Fluke® or the Fluke® 123 unit. Fluke® is a registered trademark and Fluke® 123 is a trademark of Fluke® or its subsidiaries.*

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**SBS-700 Package Includes**

- Main body/display
- Carrying case
- Pinpoint probes
- Software/USB cable
- Quick start guide
- AC adaptor

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**Ordering Information**

**Part No.** | **Description**
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SBS–700 | Multi-function oscilloscope meter

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**Accessory Ordering Information**

**Part No.** | **Description**
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600/700–TEST–LEAD–KT | Test lead accessory kit