3. Specification

3-1. Measuring range & accuracy

<table>
<thead>
<tr>
<th>Function</th>
<th>Measuring Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage Function</td>
<td>Range Measuring</td>
<td>DSA-660 DSA-1020</td>
</tr>
<tr>
<td></td>
<td>Measuring</td>
<td>DSA-680</td>
</tr>
<tr>
<td>DC Current 600A, 1000A Function</td>
<td>0-600.0 A</td>
<td>±1.5% rdg±5dgt</td>
</tr>
<tr>
<td></td>
<td>0-1000 A</td>
<td>±1.5% rdg±5dgt</td>
</tr>
<tr>
<td></td>
<td>600 A</td>
<td>±1.5% rdg±5dgt</td>
</tr>
<tr>
<td></td>
<td>1000 A</td>
<td>±1.5% rdg±5dgt</td>
</tr>
<tr>
<td></td>
<td>400 nF</td>
<td>±3.0% ±50dgt</td>
</tr>
<tr>
<td>Frequency/ Duty Function</td>
<td>20 Hz - 20 kHz</td>
<td>±2.5% rdg±5dgt</td>
</tr>
<tr>
<td></td>
<td>20 Hz - 20 kHz</td>
<td>±2.5% rdg±5dgt</td>
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</tr>
</tbody>
</table>

3-2. General Specification

- Modes of operation: AUTO/ MAN
- Display digits: 7 digits
- Operating temperature: (Frequency: 9999, Capacity & Temperature: 4039) &

4. Preparation for measurement

- Connect the test leads to the instrument and the sample to be tested.
- Set the Function Switch to any position other than "OFF".
- Be sure to power off the instrument after use. When the display is blank, it is in the sleep state.
- The instrument is to be used only in its intended applications. Otherwise, the safety features and functions may be damaged or damaged due to equipment under test.

5. 3-Function Key

- The "Mark" shown available function at each Range.

6. Measuring CAT IV 600V

- Pollution Degree 2
- Measurement Category (CAT.) IV 600V

7. Safety Warnings

- Always make sure the instrument is switched off before testing.
- Never make measurements while holding the instrument by the test leads.
- Be sure to power off the instrument before cleaning the instrument. Do not use abrasives or solvents.
5.3. AC Voltage Measurement

- Never make measurement on a circuit in which voltage over 600VAC exists to avoid electrical shock.
- Do not measure with the Battery Cover removed.

5.4. DC Voltage Measurement

- Never use the instrument on energized circuit.
- Do not measure with the Battery Cover removed.

5.5. Resistance/Cond/Cont/Capacity Measurement

- Never use the instrument on energized circuit.
- Do not measure with the Battery Cover removed.

5.6. Zero Function

Zero Adjustment Function at Current Range "mA" mark is to be indicated at the upper right hand of display while ZERO function is being operated. Indication value of the display will be zero. To display the indication value of the display, take the reading on the display. The reading will be zero.

5.7. Battery Replacement

- Do not use old and new batteries.
- Install batteries in correct polarity as indicated on the instrument.

6. Continuous, Diode, Capacitance

- Do not use old and new batteries.
- Install batteries in correct polarity as indicated on the instrument.

7. Battery Replacement

- Do not use old and new batteries.
- Install batteries in correct polarity as indicated on the instrument.

8. Maintenance

- Cleaning
- Use a cloth dipped in water or neutral detergent for cleaning the instrument. Do not use abrasives or solvents. Otherwise, instrument get damaged, deformed or discolored.

9. Conclusion

- Never connect the test probe to an energized circuit.

10. Service and Support

- Sperry's unmatched service and concern for detail and reliability.
- The attention to detail of this fine snap-around instrument that malfunctions under normal usage, has had unauthorized repair or modifications. The instrument in the Data Handbook mode to exit the Data Hold mode, press the "Hold" key again.

11. Warranty

- Lifetime Limited Warranty
- The attention to detail of this fine snap-around instrument is further enhanced by the application of A.W. Sperry's unmatched service and concern for detail and reliability.
- These A.W. Sperry's snap-around instruments are individually warranted against defects in material and workmanship normal conditions of use and service; our obligation under this warranty being limited to repairing or replacing of faulty parts, at A.W. Sperry's option, in the event that the instrument is under normal operating conditions at stated use. The instrument in the Data Handbook mode to exit the Data Hold mode, press the "Hold" key again.

12. Replacement procedure

- Securely wrap the instrument and its accessories in a box or mailing bag and ship prepaid to the address below.
- Be sure to include your name and address, as well as the name of the distributor, with a copy of your invoice from whom you purchased the instrument, when identifying the model number and date of purchase.

A.W. SPERRY INSTRUMENTS INC.
ATT: Customer service dept.
2150 Joshua Path, Suite 302
Hudson, NY 11718

*1. The warranty is not applicable if the instrument has been: misused, abused, subject to loads in excess of specifications, has been: misused, abused, subjected to loads in excess of specifications, has had unauthorized repair or modifications. If has had unauthorized repair or modifications, has had improper assembled or used. New or Refurbished Replacements are accepted by craftsmen and servicemen for their customers without normal conditions of use and service. The warranty is not applicable if the instrument has been: misused, abused, subjected to loads in excess of specifications, has had unauthorized repair or modifications.

*2. The warranty is not applicable if the instrument has been: misused, abused, subjected to loads in excess of specifications, has had unauthorized repair or modifications, has had improper assembled or used. New or Refurbished Replacements are accepted by craftsmen and servicemen for their customers without normal conditions of use and service. The warranty is not applicable if the instrument has been: misused, abused, subjected to loads in excess of specifications, has had unauthorized repair or modifications.