The DataSwitch Model 2100 Life Cycle Tester will test membrane switch keys individually at a rate of one million strokes in approximately 48 hours. The membrane switch is placed under an electrical load of 5 Milliamps DC, and is checked twice during each test cycle: once for resistance level during the 'down' stroke, and once for shorts during the 'up' stroke.

Dual counters store the number of good cycles as well as the number of bad cycles (or misses). Setting the good/miss switch on the control panel will select either counter for the LED display.

Programming and learning time are not required. Test parameters of speed, force, impact, and resistance threshold are operator adjustable. Load current is factory set at 4-5 Milliamps. Compressed air is required, so either clean shop air or a small (1/2 horsepower) air compressor must be provided. Adjustable vertical and horizontal posts on the fixture plate allow positioning of the probe over the keypad to be tested.

STANDARD FEATURE OF MODEL 2100 LIFE CYCLE TESTER

• Seven-digit Display

MODEL 2100 LIFE CYCLE TESTER PRODUCT ACCESSORIES

• Silicone Test Probes
• Model 2150 Remote Input: provides interface coupling between the tester and an external power source used to supply load current to the switch being tested. This allows any combination of voltage and current to be used instead of the factory preset values of 4-5 Milliamps at 12 VDC. Can be used for testing high volume connectorless tails.
OPTIONAL FEATURE OF MODEL 2100 LIFE CYCLE TESTER

• **Dual Range Switch:** Adds a second test range to allow testing of membrane switches with loop resistance of 0-30,000 Ohms.

MODEL 2100 LIFE CYCLE TESTER PURCHASE INCLUDES

• One Electronic Control Unit
• One **Mechanical Plate** with Pressure Regulator, Solenoid Valve, and Air Cylinder installed.
• Adjustable Horizontal and Vertical Posts.
• One Cable Assembly
• One Power Supply
• One Year Warranty (excluding air components)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance Test Range</td>
<td>0-1,000 Ohms (User Adjustable)*</td>
</tr>
<tr>
<td>Shorts Test Sensitivity</td>
<td>250,000 Ohms minimum</td>
</tr>
<tr>
<td>Counter Test Range - ‘Missed’</td>
<td>9,999,999 Cycles</td>
</tr>
<tr>
<td>Test Voltage</td>
<td>12 VDC**</td>
</tr>
<tr>
<td>Test Speed</td>
<td>0.5-6 Cycles/Second (User Adjustable)</td>
</tr>
<tr>
<td>Compressed Air Requirements</td>
<td>0.5-5 Cu. Ft./Hr. @ 00-250 PSI</td>
</tr>
</tbody>
</table>

* May be extended to 0-30,000 Ohms with Dual Range option.
** Certain options will alter this value. Contact us for details.

This **Mechanical Fixture Plate** is for use in conjunction with the **DataSwitch Model 2100 Life Cycle Tester** and comes with Pressure Regulator, Solenoid Valve, and Air Cylinder installed.
Model 2100 Life Cycle Tester

Mechanical Fixture Plate

Adjustable Probe Placement Close-Up

Close-Up of Pressure Regulator

Top View