

# Signature® 1000R+



## Easy, Affordable & Expandable



### **The Signature 1000R+**

“expands” to meet your cable/harness testing needs. From 128 to 1,024 points Cirris’ unique modular approach allows you to add expansion boxes as necessary. With the 1000R+ you can test for opens, shorts, and miswires at resistance levels from .1 ohm to 5M ohms. You can even test assemblies with resistors and diodes.

### **Assure Quality Assemblies:**

The Signature 1000R+ does more than just test. It is a complete system for quality assurance. PC Link software allows interfacing to a computer for the purpose of creating/editing wire lists, logging test data, and more.

**Fast, Easy to Use:** Designed for high-volume production use the 1000R+ is fast and simple to use. It communicates in plain English on its 2 line X 16 character LCD. It self-programs from a sample assembly or from wire lists stored in memory. Wire lists can also be downloaded from a computer. Test results are given both audibly and visually. Wire identification by touch, and step-by-step assembly instructions make the 1000R+ an ideal tool for guided harness assembly.

### **Eliminate Fixturing Hassles:**

Cirris Systems offers the widest variety of standard interface adapters in the industry.

Most popular connectors are available on cards that simply snap in and out of the analyzer.

### **Save Time/Save Money:**

Catching potential problems before they become real problems saves time, money, and customers. With its compact size and low price the Signature 1000R+ is easy to put right in the hands of those doing the assembly. Workers who perform quality assurance at the point of production eliminate scrap and rework. Use it for incoming inspection to keep defective assemblies out of your operation.

**Buy Factory Direct! Call Toll-free 1-800-441-9910**

**CIRRIS®**  
**Cable/Harness Testing Made Easy™**

**Test Parameters:** The 1000R+ tests at 5.5 volts DC. You can select resistance thresholds from .1 ohm to 5M ohms. In the "AUTO" setting the analyzer will scan the assembly and automatically set the threshold for you. In the "CALC" setting the analyzer learns an assembly and displays or prints the point-to-point wire list - including resistance values.

### Tests Assemblies with Resistors and Diodes:

The 1000R+ can automatically learn and test assemblies with multiple resistance values and/or diodes.

**Probe/Wrist Strap:** The 1000R+ comes standard with a probe for wire identification. Optionally, a standard wrist strap can be used utilizing body conductance in the guided assembly mode.

### Documentation of Wiring, Connectors, and Parameters:

Printouts containing the wiring list, connector identification, and parameter settings programmed into the analyzer's memory are easily created. This information becomes your hard copy documentation of each unique assembly. You then test all future assemblies using this documentation. Printouts also provide proof of testing by identifying the number of good cables tested.

**Signature Analysis:** The analyzer derives a unique cable signature (a mathematical reduction of the wire list and adapter signatures into a six-character code) to verify correct programming. When programming the analyzer the operator compares the signature against the documented standard to assure correct programming. A similar signature is used to verify that all test parameters are set properly.



Printed reports are key to the Cirris Cable/Harness Quality Assurance System. Cirris stocks adapters for a wide variety of popular connectors.

## Specifications

<p><b>TEST POINTS</b> 1000R+: 128 points, expandable to 1,024 points.</p> <p><b>TEST LEVELS</b> 5.5 VDC</p> <p><b>SENSITIVITY</b> Connection resistance/insulation resistance thresholds: AUTO &amp; CALC, plus manually set thresholds from 0.1Ω to 10kΩ (±4% ±0.1Ω); 50kΩ (±10%); 500kΩ (±20%); 1MΩ (±25%); 5MΩ (±25%)</p> <p><b>TYPICAL TEST RATE</b> Tests 512 points in less than 3 seconds, 128 points in less than 0.3 seconds</p>	<p><b>MAX POINTS PER NET</b> 128 points</p> <p><b>PRINTER OUTPUT</b> Standard Epson/Centronics type parallel interface. Pinout matches IBM PC parallel port.</p> <p><b>SERIAL PORT</b> RS-232C interface. PC Link software included.</p> <p><b>PROBE/WRIST STRAP</b> For test point identification.</p> <p><b>MEMORY</b> Nonvolatile storage of up to 50 wirelists. Lithium battery backup.</p>	<p><b>POWER</b> 105 -135 VAC, 60Hz 10 Watts max. 210 -260 VAC, 50Hz (optional)</p> <p><b>SIZE</b> 1000R+: 10.5"w x 6.7"d x 2"h / 27 x 17 x 5cm Scanner: 6.3"w x 6.7"d x 2"h / 16 x 17 x 5cm</p> <p><b>WEIGHT</b> 1000R+: 4.2 lbs - 1.9 kg Scanner: 2.3 lbs - 1.0 kg</p> <p><b>DISPLAY</b> 2 line x 16 character LCD</p> <p><b>WARRANTY</b> 1 year parts and labor. Replacement modules available next working day.</p>
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For More Information, Call Toll-free 1-800-441-9910

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