Signature® 1000M/2000

ISO 9001 — CIRRIS' QUALITY SYSTEM IS CERTIFIED

Cable/Harness Testing Made Easy

Guarantee Accurate Testing: Cirris Systems originated the use of signature analysis for continuity testing. This unique approach eliminates the need to save "known good" sample cables or load test programs from a cassette tape.

Solve Cable Quality Problems: The 1000M/2000 series cable/harness test systems do more than just test; they are complete systems for quality assurance. They fit the needs of both those who manufacture and those who purchase assemblies by assuring consistent quality in one cable or in thousands.

Accommodate Your Cable Assemblies: No matter how a cable is wired, you verify it completely, including the type of connectors used. Popular connectors are handled with standard adapters that easily interchange in the analyzer.

Easy to Use: The Signature 1000M/2000 analyzers communicate in plain English. They self-program from a sample cable, then verify correct programming with a signature. Once the analyzer is programmed you can test assemblies as fast as you can connect and disconnect them. The analyzers respond with both audible and visual test results. They also display guided assembly and rework instructions.

Save Time and Money: You can catch potential problems before they become real problems. With its small size and low price, the Signature system is easy to put in the hands of those actually doing the assembly. Workers can now perform quality assurance at the time of production and eliminate scrap and rework time. Use it for incoming inspection and keep cable defects outside your operation.

CIRRIS®
Cable/Harness Testing Made Easy™

Self Programming:

When you turn on the analyzer the pattern of interconnections of an attached cable is stored as a wire list in the analyzer's memory. The wire list can be stored in a non-volatile memory for future programming without a sample.

Connector Adapters:

Adapters are available for common connectors and can be easily modified to meet your special connector requirements. The analyzer also verifies correct connectors by identifying the type of adapters in use. In addition, connector pin numbers are labeled to match the connector, not just the test point numbers of the tester.

Documentation for Wiring and Connectors:

The wire list programmed into the analyzer's memory can be either printed out or transcribed. This list, along with connector identification, becomes your hard copy documentation. All future cables are tested to this standard. Printouts also provide proof of testing by identifying the number of good cables tested.

Signature Analysis:

Signature analysis assures you that the cable used for programming the analyzer is correct. This assurance is provided by using a signature (a mathematical reduction of the wire list into a six character code) to compare the sample cable with the previously documented cable. You match the documented signature to the display after self-programming with a sample cable or from a wire list stored in the analyzer's memory. Identical signatures assure you the cable used for programming matches the documentation, eliminating the need for time consuming comparisons of wire lists.

Printed reports are key to the Cirris Cable/Harness Quality Assurance System.

Specifications

CAPACITY:
  1000M: 128 points
  2000: 256 points

TEST RATE:
  1000M: 128 points in .2 sec.
  2000: 256 points in .33 sec.
  (repetitive test rates)

TEST LEVELS:
  5 volts @ 1mA

SENSITIVITY:
  Shorts detected at resistances less than 1.0kΩ
  Opens detected at resistances greater than1.5kΩ

SIGNATURE:
  6 digit hexadecimal

DISPLAY:
  2 line x 16 character back-lit LCD

HV ENERGY LIMIT:
  Current limited to 6mA max. for 10ms duration

PRINTER OUTPUT:
  Standard Centronics type parallel interface.

CONTROLS:
  1000M and 2000: Learn then test, advance display, store, and access stored cables

PROBE:
  Accessory for test point identification and directed assembly.

MEMORY:
  Nonvolatile storage of up to 50 wirelists. Lithium battery backup.

POWER:
  105-135 VAC, 60 Hz 10 Watts (210-260 VAC 50 Hz optional)

SIZE:
  1000M: 12" x 7" x 2" (30.5 cm x 17.8 cm x 5.1 cm)
  2000: 19" x 7" x 2" (48.3 cm x 17.8 cm x 5.1 cm)

WEIGHT:
  1000M: 4lbs (1.8 kg)
  2000: 7lbs (3.15 kg)

WARRANTY:
  1 year parts and labor
  Replacement modules available next working day