

Signature® 500



Twisted Pair and Installed Cable Testing Made Easy

The Compact Signature 500 is a unique cable testing tool. It is a stand-alone tester capable of testing up to 64 points. Two units can be used in tandem for testing cables of up to 128 points. Testing is performed for opens, shorts, mis-wires, and proper pairing of twisted pair cables.

Remote Testing from Either End: Can't get both ends of the cable together? No problem with the Signature 500. Simply attach one unit to each end of the cable. Power up the tester at one end (host); the other tester (remote) is powered up automatically through the cable. Either tester can be host or remote. The wire-list is then learned and can be displayed or printed from the host. The 500 self-learns ANY pattern of interconnections (crossed wires, jumpers, etc.). It also learns which wires are twisted together in twisted pair cables.

Cable Memory Tokens: The Signature 500 uses button sized "Memory Tokens" to store cable wire-lists. Each token stores the wire-list/twisted-pair list of one cable. To program the tester from a Memory Token you simply

touch the token to the cable token contact on the tester. The 500 also stores the "last learned" cable in battery backed-up internal memory.

Twisted Pair Cables? In cables with twisted pairing if a wire of one twisted pair gets swapped with a wire of another twisted pair, pin-to-pin continuity is correct, but the cable now has a serious cross-talk problem.

Test for Proper Twisted Pairs:

Single ended: For bench-top production testing of twisted pair cables you can use one Signature 500 to assure proper twisted pairing.

Double ended: You can also test installed cables in the field for proper twisted pairing using two Signature 500s, one at each end of the cable. If improper pairing exists the 500 identifies which wires are at fault, and on which end of the cable the error occurred.

Easy to Use: Simple menu-driven software will have you learning and testing cables in a few seconds.

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CIRRI'S®
Cable/Harness Testing Made Easy™

Easy to Use: One-person operation saves time and money. Since the tester on either end can be host or remote, one person can easily check installed cables of almost any length. The remote unit is powered up automatically through the cable when the host is turned on and shuts off after 5 minutes if not used.

Signature Analysis: Cirris Systems pioneered the use of Signatures in cable testing. A six-digit "signature" is mathematically derived for each different wire-list and/or twisted-pair list. This signature is used by the operator to verify whether a learned wire-list or twisted-pair list exactly matches a previously documented list.

Connector Adapters: The Signature 500 accepts Cirris' complete line of interchangeable adapter cards. Most popular connector types and sizes are available which means you don't have to hassle with a lot of different adapting cables. Adapter signatures verify that the correct type and gender of connector is used. Adapter pins are numbered correctly according to industry standards.

Specifications

TEST POINT CAPACITY

64 points "local"; 128 points when 2 systems are used together

TEST VOLTAGE

9 volts DC (current limited to 1.8 mA max)

TEST THRESHOLD

Connections < 4k Ω , opens > 4k Ω \pm 20%

MAX CAPACITANCE

.1 μ F

TEST RATE

Local: 64 points in .5 second

Remote: 128 points in .5 second (test time increases as cable length increases)

SIGNATURE

6 digit hexadecimal. Separate signatures for wire-list and twisted-pair list.

DISPLAY

2 line x 16 character supertwist LCD

MEMORY

"Last learned" cable (battery backed-up). External cable tokens, one cable per token.

Battery Powered for Truly Portable Field Testing: The 500 is powered from its internal 9 volt NiCad battery (included) or the 120/240 VAC wall transformer. An optional carrying case is available offering a handy way to pack two testers and accessories to field service sites.

Lightweight, Rugged, Dependable: The 500 is small in size, durably built, and backed by Cirris' one-year warranty and overnight swap-out program. All this means you will never be out of business with your Signature 500.

Cost Effective: The 500's versatility will pay for itself time and time again. No computer installer or repair technician's tool kit should be without it.

How Do They Work? Each Signature 500 is a microprocessor-controlled tester. When used in pairs the host unit sends signals to the remote unit down one line and receives them back on another. Therefore there must be at least two wires in a cable for remote testing. For testing twisted pairing the 500 uses capacitance measurements. In order to effectively identify twisted pairs the cable must be at least six feet (appx. two meters) long. Twisted pair testing on shorter cables may or may not work depending on the capacitance of the cable.

PRINTER PORT

RS-232 serial port with DB9 female connector. Data rates 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19200 baud, 8 data bits, no parity.

PROBE (included)

For test-point identification (local tester only). Port accepts standard .175" banana jack for use with wrist-strap.

POWER

110-240 VAC, 50-60 Hz Standard 9 volt battery. Typical operating time 12 hours on 500 mA hour alkaline battery, 2.5 hours on 7.2 volt 100 mA hour NiCad battery (included). NiCad can be recharged in place using the wall transformer. Battery save feature, auto shut-off after approximately 5 minutes of non-use.

SIZE

8.5"h x 2.2"d x 5.5"w (21 x 5.5 x 13.5 cm)

WEIGHT

1.2 lbs (545 grams)

WARRANTY

One year parts and labor. Replacement modules available next working day.

For More Information Call Toll-free 1-800-441-9910

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