

A new generation of easy high voltage testing



1024
PT

test
points



stand
alone



high
voltage



Cirris 4250 high voltage cable tester

CIRRIS
SYSTEMS

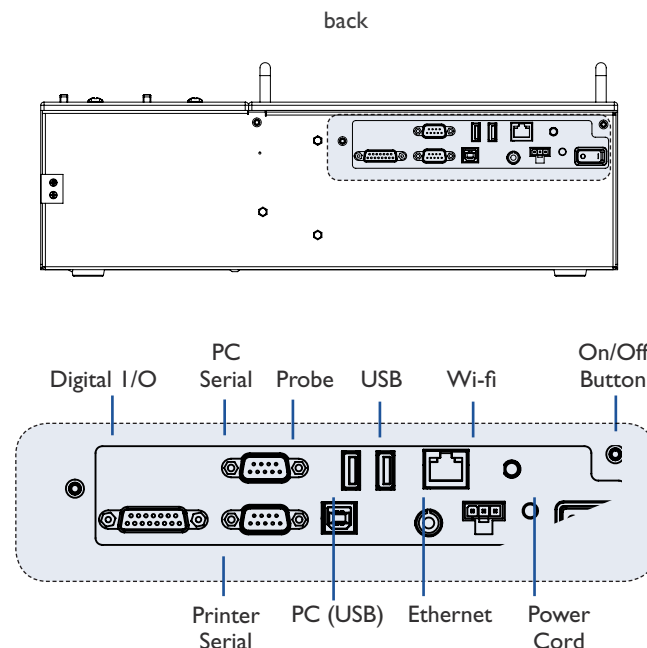
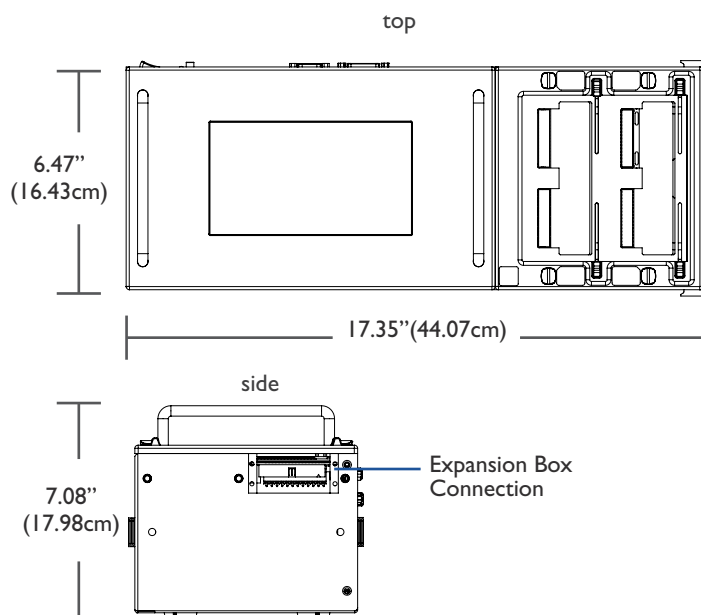
Having a reliable cable tester is vital to wire processing shops. You want a cable tester that can meet industry standards and regulations, but still be easy to use and test cables accurately. Cirris Systems created just such a product with our new 4250 cable tester. The 4250's intuitive software interface and flexible hardware system make testing cables quick and easy.

Like all Cirris testers, the 4250 can reliably test cables for wiring errors. New features have been added to improve the testing experience. With a full color capacitive touch screen and new Cirris OS software, the 4250 is one of the most capable cable testers on the market.

Product Features

- **Quality Without Being Overpriced** – Affordable for small shops and scalable for larger operations.
- **High Voltage** – Test with voltages of up to 2000 VDC or 1000 VAC (1500 VDC standard).
- **All Essential Testing** – Test for opens, shorts, miswires, and intermittent errors. Also test components such as resistors, diodes, and capacitors.
- **Fast Testing** – Innovative technology and efficient algorithms reduce time spent on testing.
- **Compact** – Small, lightweight, and self-contained for easy mobility around the production floor.
- **Expandable for Large Assemblies** – Expansion boxes allow up to 1024 test points (128 points per box).
- **Easy to Learn** – No advanced skills or training necessary to begin testing.
- **Built-in Networking** – Easily share test programs and printers among multiple units.
- **Test Program Customization** – Customize labels, reports, Digital I/O for test programs.
- **Multiple Language Options** – Interface written in user's native language to avoid mistakes caused by language barriers.
- **Quick Test Setup** – The Cirris Adapter System provides inexpensive, interchangeable fixturing.
- **Transition from 1100** – Use test programs and reports already setup for the 1100H+ on the 4250.

For more information visit 4250.cirris.com or call 1-800-441-9910



4250 Specifications

Test Points

128 points; expandable to 1024 points in 128-point increments

Low Voltage Test

■ 2 Wire

Voltage: 4V max

Current: 3 μ A to 6 mA

Resistance: 0.1 Ω to 100 k Ω \pm 1% \pm 0.1 Ω , 100 k Ω to 5 M Ω \pm 10%

■ 4 Wire

Voltage: 4V max

Current: 1 mA to 1 A

Resistance: 0.001 Ω to 10 Ω \pm 2% \pm 0.001 Ω

Component Tests

Diodes: Silicon, LEDs, zeners with breakdown > 4V

Resistors: 0.1 Ω to 100 k Ω \pm 1% \pm 0.1 Ω , 100 k Ω to 5 M Ω \pm 10%

Capacitors: 5 nF to 100 μ F \pm 10% \pm 0.02 nF

Twisted Pairs: Verify proper pairing in twisted pair cables

High Voltage Test

■ Insulation Resistance Test

Voltage: 50 to 1500 VDC \pm 5% \pm 5 V (2000 VDC optional)

Resistance: 5 M Ω to 1000 M Ω \pm 10%

■ Dielectric Withstand Test

Voltage: 50 to 1500 VDC \pm 5% \pm 5 V (2000 VDC optional, 50 to 1000 VAC optional)

Current Limit: 0.1 mA to 1.5 mA

Max Capacitance Per Net: 150 nF @ 300 VDC, 90 nF @ 500 VDC, 45 nF @ 1000 VDC, 30 nF @ 1500 VDC, 9.5 nF @ 1000 VAC

HV Energy Limit: 35 mJ

HV Charge Limit: 45 μ C

Max Points Per Net

100

Digital Input/Output

4 Inputs / 6 Outputs, 24V Open collector; +10V and +5V each current limited to 100 mA

Test Point Interface

Cirris Adapter System

User Interface

Display: 7" color graphical display with capacitive touch screen (800 X 480 pixel resolution).

Localization: English, German, Spanish with ability to translate to other languages as needed.

Memory: Internal memory for test program storage (8GB or more).

File transfer: Transfer test programs either by connecting directly to a PC or using a USB flash drive.

Printing: Local label printing via serial ports. Network printing via optional Cirris Hub™ software.

Optional PC control: Additional advanced features via Easy-Wire™ software.

Power

105 - 135V, 60 Hz, 210 - 260V, 50 Hz

Size

Main Unit: 17.35" x 6.47" x 7.08" (44.07 cm x 16.43 cm x 17.98 cm)

Add-on Box: 6.24" x 5.22" x 7.08" (15.85 cm x 13.26 cm x 17.98 cm)

Weight

Main Unit: 11.35 lb (5.15 kg)

Add-on Box: 5.00 lb (2.27 kg)