



4250 High Voltage Cable Tester



test points



high voltage*

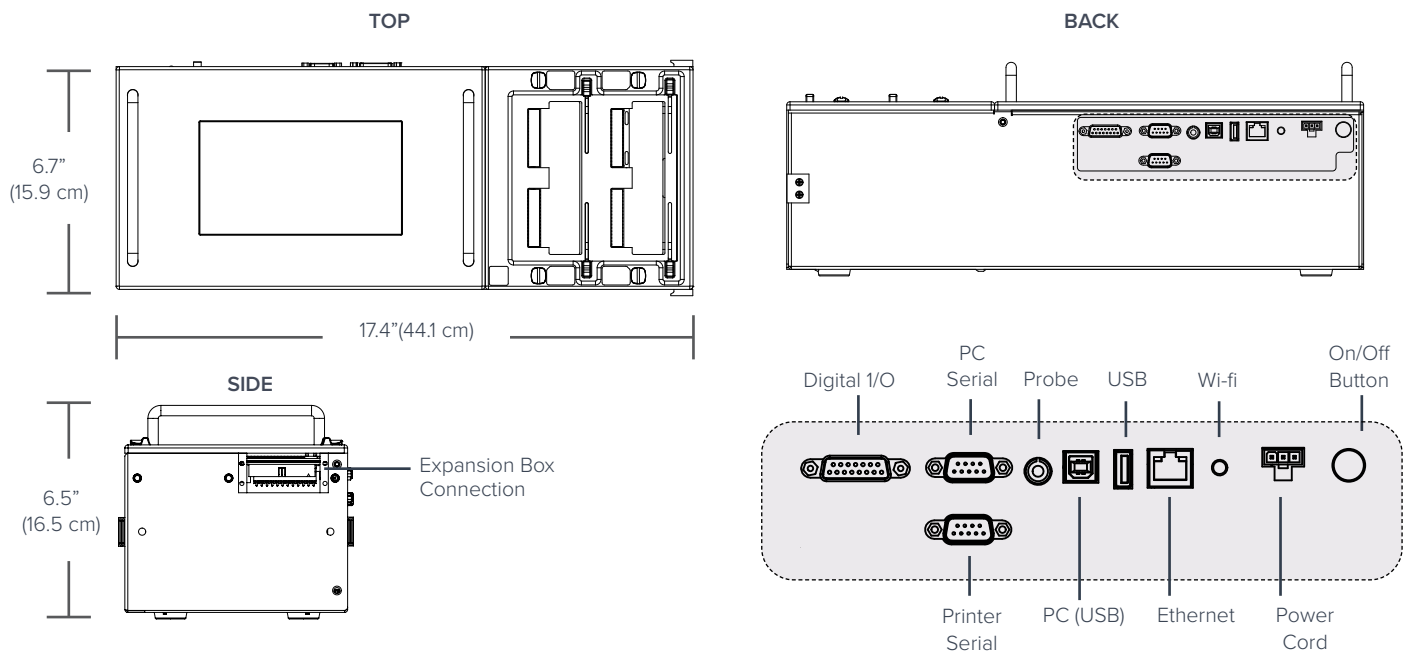


standalone

You want a benchtop cable tester that can do it all – look for wiring errors, test components, check for continuity, and analyze insulation resistance. The Cirris® 4250 high voltage cable tester will meet all your production needs. The full-color capacitive touch screen with an intuitive interface was designed with security and ease of use in mind. The latest tester from Cirris will complete your cable testing process.

Product Features

- **High Voltage** – Test with voltages of up to 2000 VDC or 1000 VAC (1500 VDC standard).
- **Thorough Testing** – Test for continuity, isolation, opens, and miswires. Analyze components such as resistors, diodes, capacitors, and perform Kelvin 4-wire resistance measurements.
- **Expandable** – Up to 1024 points in 128-point increments.
- **Fast Testing** – Innovative technology and efficient algorithms reduce time spent on testing.
- **Easy to Learn** – No advanced skills or training necessary to begin testing.
- **Compact** – Small, lightweight, and self-contained for easy mobility around the production floor.
- **Built-in Networking** – Easily share test programs and printers among multiple units.
- **Test Program Customization** – Customize test setup, labels, and reports.
- **Multiple Language Options** – Interface translated into several languages to avoid mistakes caused by language barriers. (More languages to come.)
- **Transition from 1100** – Use test programs and reports already set up for the 1100H+ on the 4250.
- **Durable** – Test thousands of cables without fear of equipment failure.
- **Optional PC Control** – Connect to a PC and expand capability with Cirris Easy-Wire® Software.
- **Printing** – Local and network printing capabilities for printing reports. Zebra printer attaches to integrated serial port on tester for printing labels.
- **Error Location** – Detects error location (which end) for opens and shorts.
- **Digital I/O** – Automate your test process with lights, switches, and safety devices.
- **Cirris Adapter System** – Compatible with Cirris interchangeable test adapters that provide inexpensive interchangeable .
- **Optional Features** – Also compatible with Easy-Wire/PC-control, scripting, and data collection.
- **Full-color touch screen** – View instructions and test results on 7" display



4250 Specifications

Test Points

128 points; expandable to 1024 points in 128-point increments
(64 point configuration available)

Low Voltage Test

■ 2 Wire

Voltage: 4 V 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: 4 V 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 > 4 V

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: 100 to 1500 VDC $\pm$ 5% (2000 VDC optional),
50 to 100 VDC $\pm$ 5V

Resistance: 5 M Ω to 1000 M Ω $\pm$ 10%

■ Dielectric Withstand Test

Voltage: 50 to 1500 VDC (2000VDC, 50 to 1000 VAC optional),
< 100V $\pm$ 5% $\pm$ 5V, $\geq$ 100 $\pm$ 5%, 10ms to 120s or 1 to 7,200 cycles

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, 24 V Open collector, +10 V and +5 V each
current limited to 100 mA

*2 of the inputs available via scripting or Easy-Wire software

Test Point Interface

Cirris Adapter System

User Interface

Display: 7" color graphic 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 -135 V, 60 Hz, 210 -260 V, 50 Hz

Size

Main Unit: 17.4" x 6.7" x 6.5" (44.1 cm x 17.1 cm x 16.5 cm)

Add-on Box: 6.3" x 6.7" x 5.3" (15.9 cm x 17.1 cm 13.3 cm)

Weight

Main Unit: 11.4 lb (5.2 kg)

Add-on Box: 5 lb (2.3 kg)