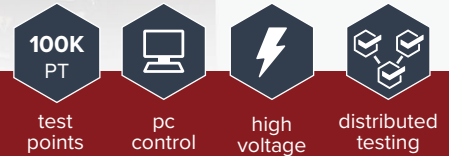




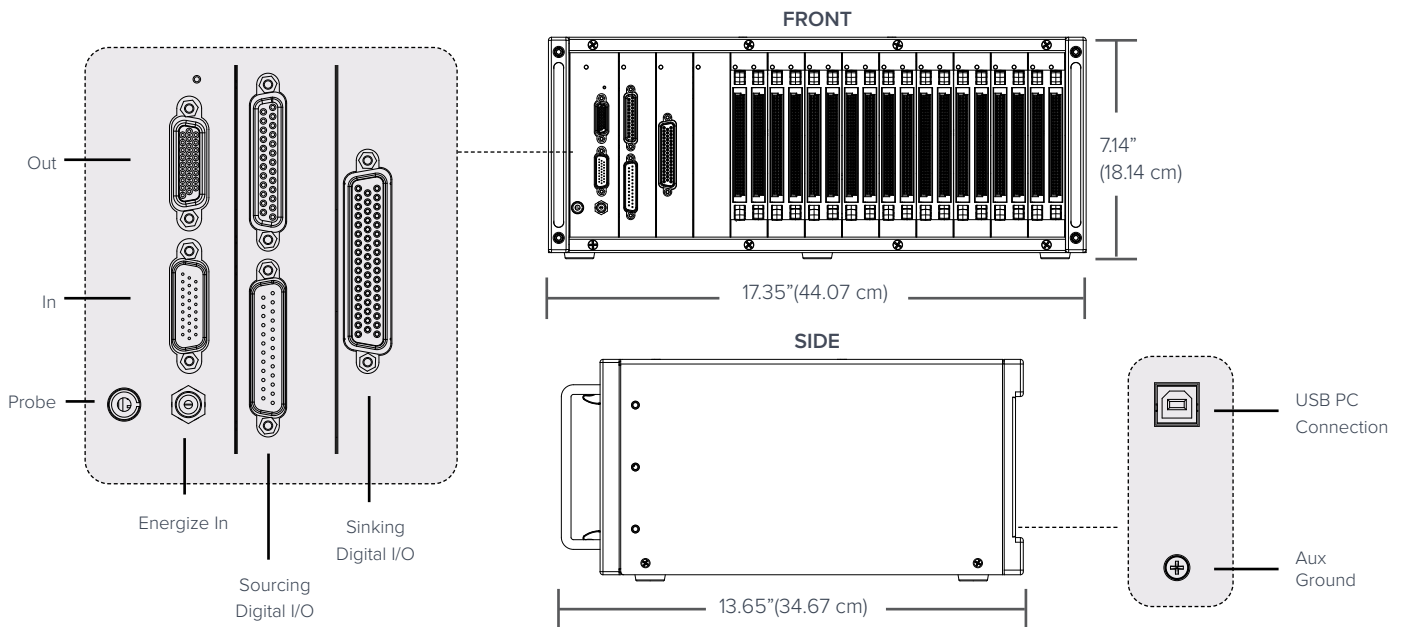
8250 High Voltage Tester



The 8250 is our most powerful and flexible system, designed for testing harnesses, backplanes, and other complex electrical assemblies. It supports the testing of active components, can integrate high-capacity power supplies, meters, and other external instruments, and offers multiple test-point module types to meet the needs of a wide-range of demanding applications. Programming is fast with options to auto-learn a sample, program via the UI, or import test files and set up is expedited with our Smart-Lights® intelligent adapters. Modular base units and expansions can be distributed to minimize the length of adapter cables and reduce associated costs. Multiple base units and expansions can be combined to scale up for testing large assemblies when needed and then reconfigured for smaller setups without extra hardware. The 8250 delivers maximum agility and efficiency for your production environment.

Product Features

- **Quickly Detects Intermittent Connections** – Configured with Cirris High Speed Test Points, the unit uses solid state circuitry to maximize low voltage testing speed and relays to perform high voltage tests.
- **Complex Measurements** – Cirris Advanced Test Points provide the maximum range of test flexibility and external instrument integration to meet the most demanding test applications.
- **Energize Relays and Active Components** – Cirris Flex Test Points put the power and measurements in a single module saving valuable space and weight of a system and providing the maximum flexibility of each point being both capable or energizing and measuring points where needed through the software.
- **External Control and Data Exchange** – The optional Cirris Tester Access API provides the functions needed to control the 8250 from external applications developed in LabVIEW®, C/C++, Python, or Delphi. To supplement data exchange capabilities, the system can act as an OPC UA server for client applications.
- **Safety Interlock** – Provides for the integration of safety interlock and warning indicators.
- **Digital IO** – Add an optional Sourcing or Sinking Digital I/O module to communicate with external devices. Used commonly for light curtains, safety switches, electromechanical, and pneumatic devices.
- **Temperature and Humidity Control** – To ensure operational performance in even the toughest environments, the tester is equipped with internal sensors to monitor temperature and humidity and will automatically input this data on test reports to ensure accuracy and consistency in measurements.
- **Easy Serviceability** – To simplify service and support, each module is field-replaceable and has an LED indicator that speeds error diagnosis.
- **Distribution of test points** – Bases and Expansions can be separated from each other by up to 100 feet (total max. of 200 feet per system).
- **Use Multiple Base Units Together** – Provides maximum flexibility by allowing multiple smaller systems to be combined into one larger system when an application demands more test points.



8250 Specifications* | Visit cirrus.com/8250 or call +1-801-973-4600

Test Points

64 to 100,000+ test points in 64-point increments

Low Voltage Test

■ 2 Wire

Voltage: 3.3 V standard

Current: 0.1 μ A to 10 mA

Wire Resistance*: 0.1 Ω to 1 M Ω \pm 1% \pm 0.1 Ω , 1 M Ω to 10 M Ω \pm 2%.

■ 4 Wire

Voltage: 3.3 V standard

Current: 0.1 μ A to 2 A

Wire Resistance*: 0.001 Ω to 1 M Ω \pm 1% \pm 0.001 Ω , 1 M Ω to 10 M Ω \pm 2%.

Components Test

Diodes: 0 to 6 V standard; 0-30 V with Adv Test Points

Resistors: 0.1 Ω to 1 M Ω \pm 1% \pm 0.1 Ω , 1 M Ω to 10 M Ω \pm 2%

Capacitors: 10 pF to 5000 μ F \pm 10% \pm 50 pF

Twisted Pairs: Verify proper pairing in twisted pair cables

High Voltage Test

■ Insulation Resistance Test (IR)

Voltage: 100 to 1500VDC \pm 5% \pm 5 V

Resistance: 5 M Ω to 3 G Ω \pm 10% (Optional 10 G Ω \pm 10%)

■ Dielectric Withstand Test (DW)

Voltage: 100 to 1500 VDC \pm 5% \pm 5 V or 100 to 1070 VAC \pm 5% \pm 5 V

Current Limit: (DC) 10 μ A to 2.5 mA, (AC) 10 μ A to 2.5mA (RMS)

Max Capacitance Per Net: 30 nF @ 1500 VDC; 6.3 nF @ 1000 VAC

HV Energy Limit: 35 mJ

HV Charge Limit: 45 μ C

Max Points Per Net

Unlimited

Digital Input/Output (optional)

Sourcing (PNP): 16 inputs, 16 outputs, 12 V - 24 V

Sinking (NPN): 20 configurable Inputs/Outputs, 8 Outputs, 3.3 V - 24 V

Available Test Point Modules

High Speed Test Points 64pt: Single relay per test point for high voltage switching. Uses solid state circuitry to maximize test speed during low voltage testing.

Advanced Test Points 64pt: Two relays per test point, allowing external meter integration, floating selected nets to isolate high voltage and capacitance measurements, optionally allows stimulus up to 30 VDC 10mA during low voltage testing.

Flex Test Points 32pt: Dual-function module enables testing and energizing up to 60VDC/2A or 40 VAC/1.4A RMS on each point. Supports external meter integration and can be combined in systems with Advanced Test Point modules.

Low Voltage Only Test Points 64pt: For complex functionality without High Voltage. The system can be field upgraded with HV scanner replacement modules and adding an HV module.

Test Point Interface

96 pos. Female VME Eurocard connector-32 pos. loaded

User Interface

■ PC Requirements

Test Station: 2.0 GHz min. processor speed, Windows 11 Pro®, 15 GB hard drive space, 4 GB RAM, 256 MB min. video memory, 1024 x 768 min display resolution, sound (for audible feedback), USB 2.0 or 3.0 port

Optional Network Database Server: As above except no sound or USB ports required.

Power

115 / 230 V 50/60 Hz

Size & Weight

17.35" x 13.65" x 7.14" (44.07cm x 34.67cm x 18.14cm), 40 lbs (18kg) fully loaded

*Specifications listed reflect use of Advanced Scanner and High Voltage modules. Specifications vary by tester module configuration.