



8100 Harness Tester



100K
PT

test
points



pc
control

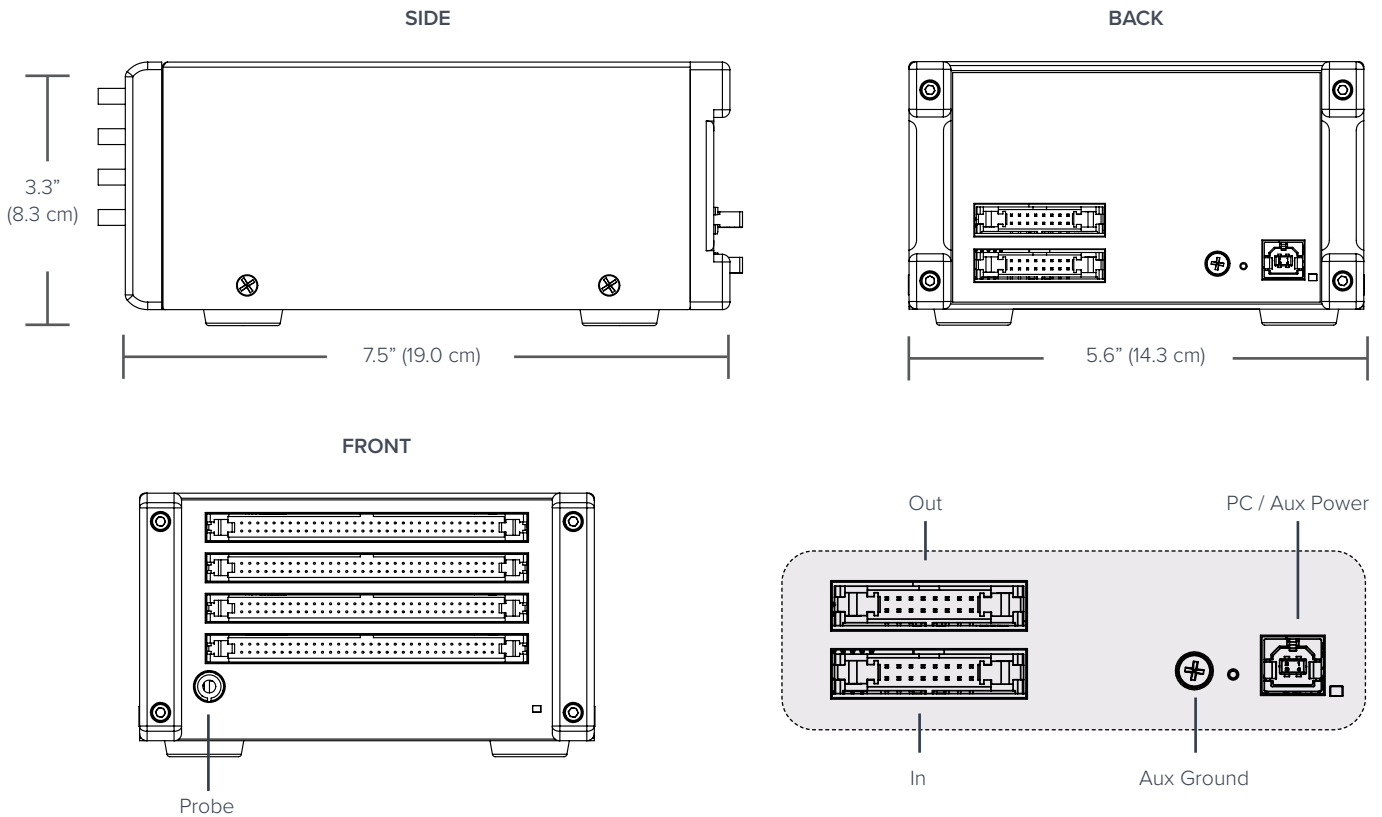


guided
assembly

The 8100 is the next generation of Cirris low voltage harness tester. The tester is driven by the powerful, Easy-Wire® software, which provides maximum test flexibility. The test system allows operators to view connector images with target pin locations during the assembly process or rework. The 8100 has a robust design to meet the rigors of the production environment. Its compact size means it is non-intrusive at the workstation, can be mounted on the back of a harness board, or can be distributed with other 8100 units around the device to be tested.

Product Features

- **Expandable** – Scale from 256 to 100,000 test points.
- **CR Compatible** – Use legacy CR test programs, and use most 8100 test programs on CR test systems.
- **Smart or Traditional Interfacing** – Use with either Cirris Smart-Lights® or traditional interfacing.
- **Easy-Wire® Software** – Powerful software provides efficient test set-up and retrieval, operator access based on login, flexible test operation and reporting, and a test record archive.
- **Operator Guidance** – Graphic representations and operator prompts simplifies the build process and troubleshooting.
- **Resistance & Touch Probing** – Probe can be used to identify points and make resistance measurements. Wrist strap allows finger-touch identification of test points.
- **Passive Components** – Flexibly test assemblies with passive components such as resistors, diodes, capacitors.
- **Sensitive Measurements** – Use Cirris Advance Instructions to make custom electrical measurements.
- **Windows PC Based** – Provides easy integration with bar code scanners, local and shared printers. Optionally, accommodates a PC network so multiple testers can use the same test programs, connector definitions, user login, and report formats.
- **Portability Option** – Power for base unit is sourced from PC/USB connection allowing for mobility using laptop battery power if needed.
- **Durable** – With new rugged design, the 8100 withstands the rigors of the production environment.
- **Every Base an Expansion** – Base units can be used individually or flexibly combined to make a larger system. An expansion unit can be upgraded to a base unit.
- **4-Wire Kelvin** – When needed, make higher accuracy resistance measurements.
- **Digital I/O** – This option allows easy integration with external controls and equipment.



8100 Specifications

Test Points

Up to 256 test points per base or expansion unit. Expandable up to 100,000 max test points. Expansion units may be distributed up to 200" (60 m) from base

Low Voltage Test

■ 2 Wire

Voltage: 6 VDC max

Current: 0.1 μ A to 10 mA

Wire Resistance: 0.1 Ω to 100 Ω \pm 2% \pm 0.1 Ω

Insulation Resistance Max: 3 M Ω \pm 2% \pm 0.1 Ω

■ 4 Wire

Voltage: 6 VDC max

Current: 0.1 μ A to 10 mA

Wire Resistance: .005 Ω to 100 Ω \pm 2% \pm 0.005 Ω

Component Tests

Diodes: 0 to 6 VDC

Resistors: 0.1 Ω to 3 M Ω \pm 2% \pm 0.1 Ω

Capacitors: 100 pF to 1000 μ F \pm 10% \pm 50 pF

Digital Input/Output (Optional)

8 outputs and 20 inputs/outputs; sinking outputs, 28 V max; IO card requires one test-point card position, leaving 192 test points.

Test Point Interface

64 pos. shrouded .1" latching male header

User Interface

■ PC Requirements

Test Station Minimum Requirements: Windows® 10 Pro or Windows® 11 Pro, 2.0 GHz processor speed, 15 GB hard drive space, 4 GB RAM, 256 MB video memory, 1024 x 768 display resolution, sound, USB 2.0 or 3.0 port.

Optional Network Database Server Requirements: Same as "Test Station", however, no sound or USB ports required. Windows 10 Pro®, Windows 11 Pro®, Windows Server 2012®, Windows Server 2016®, Windows Server 2019®.

Power

Powered from PC USB connection; Large systems may require auxiliary power from USB hub or wall transformer.

Size

3.3" H x 5.6" W x 7.5" L (8.3 cm x 14.3 cm x 7.5 cm)

Weight

3.2 lbs (1.5 kg)