CIRRIS®
A KOMAX COMPANY

8250

Getting Started Guide

To download software, the *8250 User Manual,* and other supporting documentation scan the QR code here or on the tester to visit **downloads.cirris.com.**

Getting Started

The PC-controlled 8250 system can perform a wide variety of electrical tests including low voltage continuity, isolation, passive component testing, and high voltage dielectric withstand and insulation resistance. The system can be configured to meet custom requirements and can be equipped with advanced software features and optional meters to extend its measurement capabilities.

This Getting Started Guide is intended to help the new user set up the tester, install the Easy-Wire software and power up the system. For further information, including test fixture options and programming guidance, see the Easy-Wire Help installed with the software and the *8250 User Manual*.

Symbols

Symbols used on the tester and/or in this guide:



Indicates that high voltage is produced by the tester and, therefore, there is a risk of electric shock.



Alerts users to a risk of personal injury or damage to the equipment.



Indicates that a person using an electronically-controlled medical device should not perform high voltage testing.



Highlights an important note.

Safety 

By design and function, the output of high voltage test equipment presents a risk of electric shock. The extent of the risk is a function of the voltage, current and high voltage energy or charge. In order to mitigate the risk, the 8250 high voltage energy limit is 35 mJ and the high voltage charge limit is 45µC. These limits prevent circuits energized during high voltage testing from meeting the definition of “HAZARDOUS LIVE” found in international standard IEC 61010-1 or the definition of “Dangerous” found in European Standard EN 50191.

> ***Important Note:*** *If the test system is equipped with optional, external meters or power supplies, these instruments may not meet the same safety standards as the 8250. Therefore, it is critical to review the user manual for each instrument to determine whether additional safety measures, such as safety interlocks, are required.*

Regardless of the built-in safety features, operators can still receive a painful or startling shock when using any high voltage test equipment. Therefore, it is necessary to protect workers from exposure to high voltage.

Protecting workers begins with training. Operators should understand:

- Basic electricity including the fact that electric current will take any available path to ground, including through a person.
- How to use the test equipment and how to recognize when high voltage testing is being performed.
- Not to not touch the product or test fixture hardware during high voltage testing.

A safe test station is an essential complement to training:

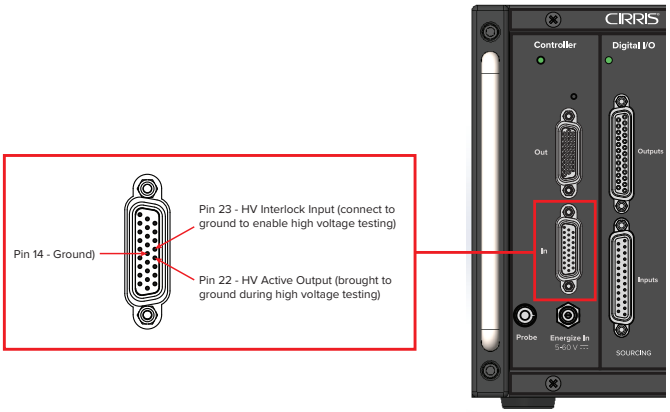
- Use a non-conductive work surface to avoid creating an unintended electrical path between high voltage and workers.
- Verify that the power outlet provides a properly wired, low impedance earth ground. The connection to earth ground is integral to the power cord supplied with the tester.
- Do not allow untrained workers to use high voltage test equipment.
- Isolate high voltage testing from untrained employees and post high voltage warning signs at the test station.

High Voltage Interlock

The 8250 supports external safety devices such as switches, enclosures, light curtains, or similar hardware using a **High Voltage Interlock**. The interlock is accessed through the **IN** connector on the Base unit's **Controller** module. The connector is a 26-position, high-density, male, D-Sub connector for which mating connectors are readily available.

To enable high voltage testing, pin 23 in the **IN** connector must be connected to ground. Ground is provided by pin 14 (the connector shell is also ground). Connecting pin 23 and pin 14 through a safety device satisfies this requirement.

*The **High Voltage (HV) Interlock Override** supplied with the tester connects pin 23 to pin 14 to override the interlock and allow high voltage testing. **The override is not a safety device and provides no protection for operators.***



Medical Safety Warning

An individual using a cardiac pacemaker, an insulin pump, or any electronically-controlled medical device should NOT perform high voltage testing.

Intended Use

Cirris 8250 systems are designed for electrical testing and are intended to be used indoors, in a dry environment, at a temperature of 50-104 degrees Fahrenheit (10-40 degrees Celsius). High voltage Insulation Resistance measurements degrade above 70% relative humidity.

No User-Serviceable Components

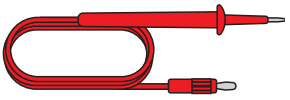
The tester includes no user-serviceable components. Attempting repairs or altering the tester in any way voids the warranty and may lead to an unsafe condition. Contact Cirris Technical Support for assistance if needed.

System Components

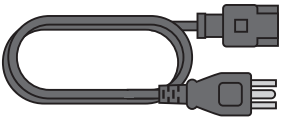
Base



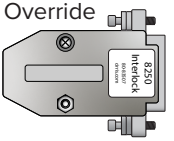
Probe



Power Cord



HV Interlock Override



The 8250 system is controlled by the Easy-Wire software installed on a PC, which must meet the following requirements:

- Windows 11 Pro operating system
- 2.0 GHz min. processor speed
- Free USB 2.0 or 3.0 port
- 15 GB min. free hard drive space
- 4 GB min. RAM
- 256 MB min. video memory
- 1024 x 768 min. display resolution
- Sound (for audible feedback)
- Internet connection - not required for normal use but it is required to download software and it can facilitate technical support

Assembling the System

8250 systems can be assembled in a variety of configurations. The Expansion Enclosures are designed to be stacked on top of the Base Unit or mounted in 19" (482.6 mm) electronics cabinets with the Base Unit mounted below the Expansion enclosures. In this configuration, standard Expansion Cables can be used to connect the units.

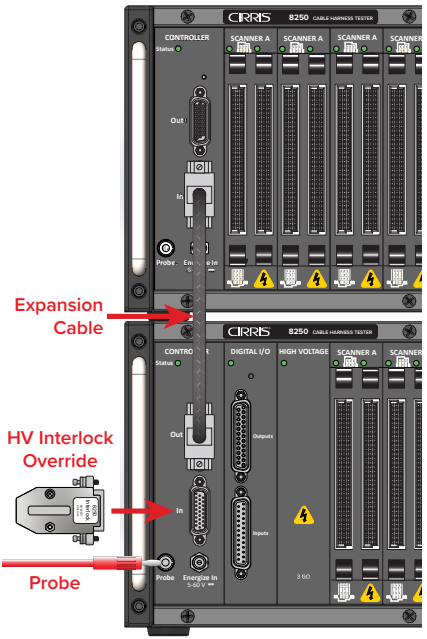
In a distributed configuration, the scanner enclosures are separated from the Base and/or from each other using custom length Expansion Cables. In distributed systems, a single Expansion Cable cannot exceed 100 feet (30 m) and the total length of all the Expansion Cables cannot exceed 200 feet (60 m).

Note: The assembly process varies for systems installed in cabinets. If the system includes an external instrument, see the *Advanced Instructions Manual*.

On the Front Panel

1. If the system includes Expansions, connect the male end of the supplied **Expansion Cable** to the **OUT** connector on the **Base Controller** module and the female end of the cable to the **IN** connector on the **Expansion Controller** module. Repeat the connections in a daisy-chain layout for each additional Expansion. Standard length Expansion Cables can be used to stack the units.

   Caution: *To avoid damaging the hardware, the 8250 must be powered down before connecting or disconnecting Expansion Cables.*



2. Connect the **Probe** to the probe receptacle on the Base Controller Module or to any Expansion.

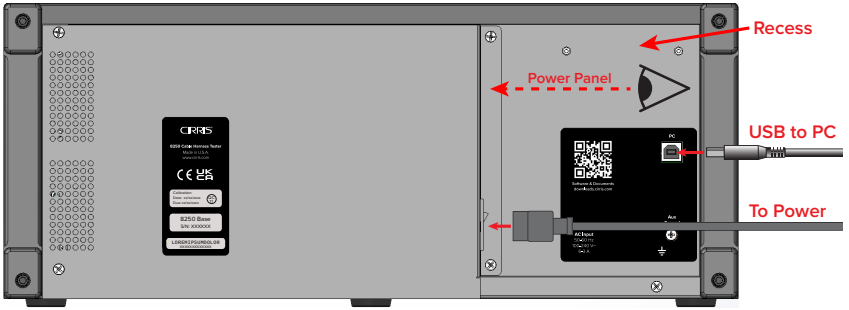
3. Connect external safety interlock hardware to the **IN** connector on the **Base Controller** module as described on page 3. If not using a safety interlock, installing the **HV Interlock Override** will allow the system to perform high voltage testing.

   Warning: The HV Interlock override is not a safety device and provides no protection for operators. *The override should not be used on systems that incorporate external power supplies or meters before reviewing the user manual for the external instrument. Such systems may not meet the energy and charge safety limits of a standard 8250 system and if not, would require a safety interlock.*

On the Rear Panel

4. Insert the USB Type B connector of the supplied USB cable into the **PC (USB)** port on the 8250 Base and connect the other end to a USB port on the PC controller.

Base Rear Panel (identical to Expansion except only Base includes USB Port)



5. Connect the Power Cord(s) to the power receptacle(s) on the 8250 Base and to any Expansions. The power receptacle is located on the inside wall of the recessed section on the back panel next to the power switch. Plug the cable(s) into a surge-protected power strip and plug the power strip into a grounded power outlet. The 8250 Base and Expansions will automatically adjust to AC input from 100-240 volts AC, 50-60 Hz.

Power Panel



The *LED on the Controller Module will be lit when the unit is connected to power and the power switch is toggled to the ON position. However, the system will not be functional, and will remain silent, until the Easy-Wire software is opened and the user logs in.*

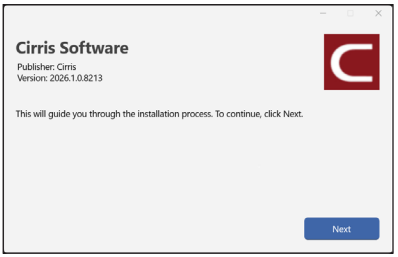
Easy-Wire Software

Download

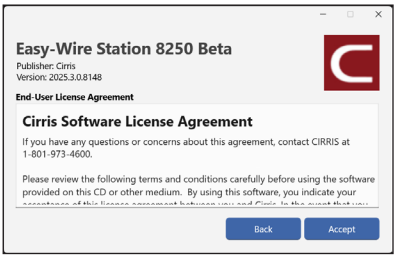
The purchase of a new 8250 Base includes the latest version of the Easy-Wire Station software. The **Cirris Software Installer** can be downloaded from the Cirris web site at **downloads.cirris.com**.

Install

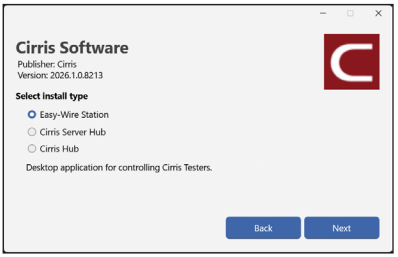
1. Open the **Cirris Software Installer** and follow the on-screen instructions. The process may vary depending on circumstances.



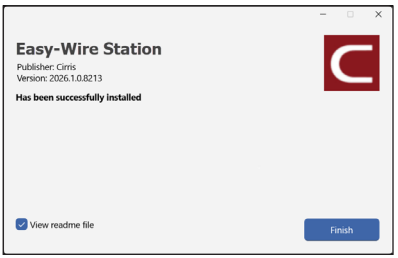
2. When prompted, read the Easy-Wire Software License Agreement and accept the terms to continue the installation. Click **Next**.



3. When presented with the options, select **Easy-Wire Station** to install the software needed to control the tester.



4. At the end of the installation, click **Finish** to complete the process. Selecting the checkbox opens a “readme” file on exiting that summarizes the revision history.



A shortcut for Easy-Wire Station application is placed on the Windows desktop.

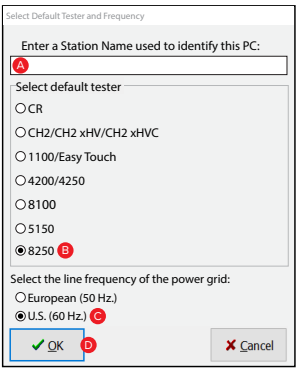


Startup

1. Toggle the power switch on the 8250 Base and on any Expansions to the **On** position. The system won't indicate any change of state until the Easy-Wire software is opened.

2. Open the Easy-Wire software by double-clicking on the desktop icon. If the icon can't be found, from the Windows task bar, click Start > Cirris Systems Corporation > Easy-Wire.

3. The first time the Easy-Wire software is opened, the user is prompted to enter basic information about the test station.



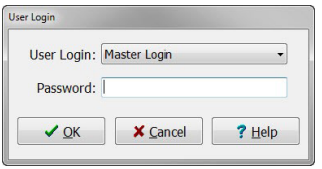
   A. Enter a Station Name (the name is used in reports). The name can be changed later from the **Main Menu** > **Utilities** > **Setup System Options** > **Station Name** tab.

   B. Select **8250** as the tester type.

   C. Select the frequency of the AC power (Mains) input to the system.

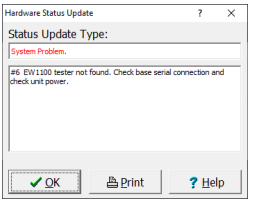
   D. Click **OK**.

4. When the **User Login** window opens, select **Master Login** from the drop down list. Do not enter a password. Click **OK**



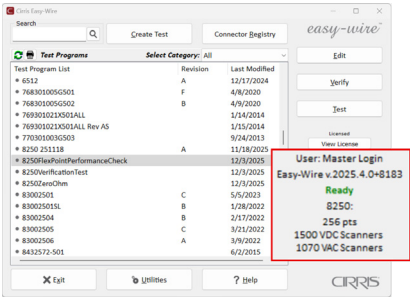
   Passwords and new users can be created from the **Main Menu** > **Utilities** > **Setup Security**. See the Easy-Wire Help.

5. If the **Hardware Status Update** window opens, click **OK**.



   This window is normally displayed when opening Easy-Wire after a new installation or when any changes are made to the hardware or software.

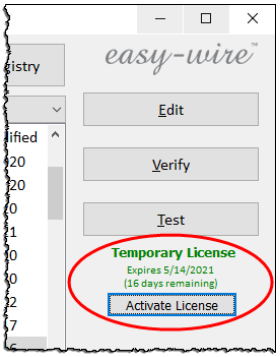
6. The Easy-Wire Main Menu will open.

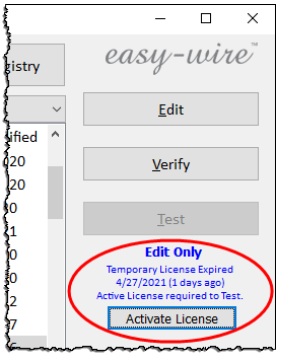


   The tester performs a series of self-tests during initialization. These tests ensure that the hardware and software are working properly. When the self-test passes, the Main Menu will open with a **Ready** status indicator.

Activate the Software License

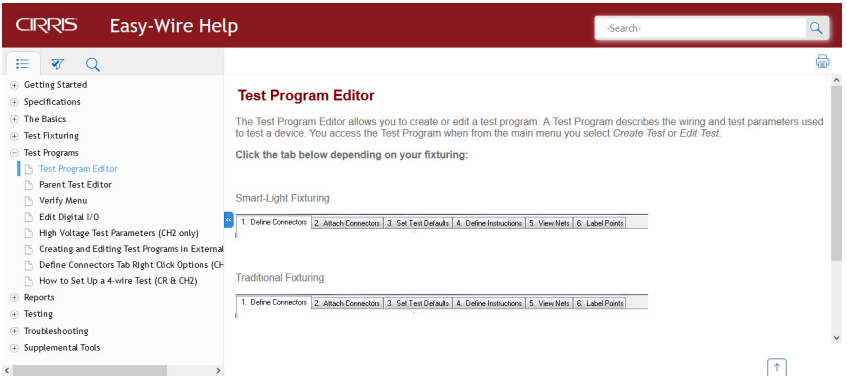
After performing a new installation, the Easy-Wire software will be fully functional for 21 days. During this period, the Main Menu displays the license status **Temporary License**. If the software license is not activated before the end of this time, the software will enter an **Edit Only** mode, which supports editing functions, but which does not support tester control. To maintain full functionality, the software license must be activated. A video describing the license activation process is available at **activate.easy-wire.com**. Detailed instructions for the process can be found in the Easy-Wire Help by searching **License Manager**.





Accessing the Easy-Wire Help

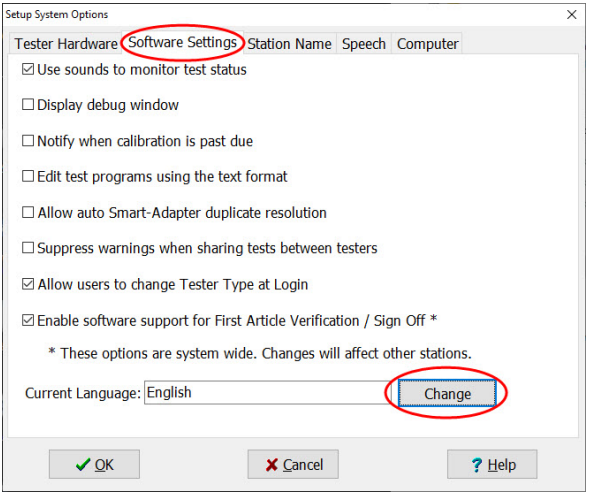
The Easy-Wire software includes a contextual Help system accessible by clicking on the Help button available on each Easy-Wire window. The Help can be browsed using its Table of Contents or searched by keywords.



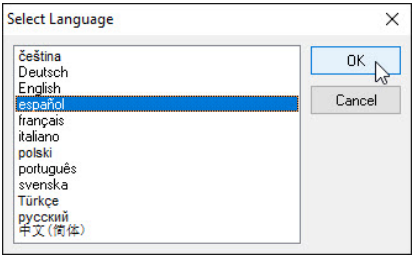
Changing the Interface Language

The language used in the Easy-Wire interface can be changed to one of the available options.

1. From the **Main Menu** > **Utilities** > **Setup System Options**.
2. Under the **Software Settings** tab, select **Change** for the **Current Language**.



3. Select a language from the list of options and click **OK**.



4. Click **OK** on the **Setup System Options** window to return to the **Main Menu**.

Calibration

New Cirris testers ship with a Certificate of Calibration valid for one year. Cirris recommends that the calibration be validated annually at a minimum thereafter. The validation can be performed by Cirris or by the end user or a calibration service provider using an 8250 Performance Verification Kit. Contact your Cirris sales representative for more information.

Documentation

In addition to this Getting Started Guide, there are several resources that provide important information about the test system and its operation. The Easy-Wire Help is installed with the software. Software, manuals, and other documentation can be downloaded from the Cirris web site at **downloads.cirris.com** or by scanning the QR code on the tester.

- **8250 User Manual** - Provides important additional information about building test fixtures and developing test programs.
- **Easy-Wire Help** - The Easy-Wire software includes an integrated Help system that provides contextual assistance accessible throughout the application.
- **Cirris Server Software Install Guide** - Describes the Cirris Server Software installation and how to connect a test station to the server.
- **Smart-Lights Quick Start Guide** - Includes instructions for setting up the optional Smart-Lights intelligent devices. Programming instructions can be found in the Easy-Wire Help.

Help / Support

For assistance with your Cirris test system:

- Visit www.cirris.com/learning-center to read articles about Cirris products and other testing subjects.
- Visit the Cirris YouTube channel to find instructive videos.
- In the United States, contact our technical support team at techsupport@cirris.com or by phone at 801-973-4600, ext. 666 (or ask for Tech Support).
- Outside the United States, visit the contact page at www.cirris.com to find your local Cirris representative.

Warranty

Cirris Inc. warrants new products manufactured by Cirris Inc. to be free from defects in material and workmanship for a period of twelve months. Products not manufactured by Cirris Inc. are warranted by their manufacturer. Cirris Inc. at its option will repair or replace faulty goods and is not responsible for any consequential loss incurred due to faulty goods. This warranty does not cover normal wear, misuse or consumable items. The warranty does not include modifications or damages due to abuse by the user.

NO WARRANTY AGAINST INFRINGEMENT: Cirris Inc. makes no warranty whatsoever that the goods are delivered free of any rightful claim of any third person for infringement of patent.

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