LI-830 & LI-850 Gas Analyzer Quick Start Guide

This document will help you get started with the LI-830 CO_2 Gas Analyzer and LI-850 CO_2/H_2O Gas Analyzer.

Online resources

Go to www.licor.com/env/support for online resources, including:

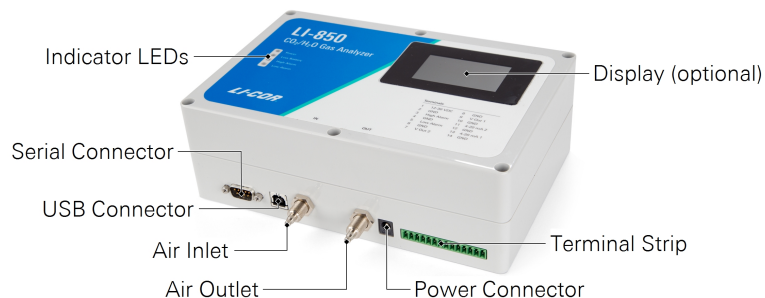|		
⬇	**Software**	The application software is available for both Windows® and macOS®. It is used to view readings, configure the instrument, and set up data logging.
🗎	**Instruction Manual**	The instruction manual is called **Using the LI-830 and LI-850**. It provides basic operating and maintenance instructions for the instruments.
🗎	**Integrator's Guide**	The **Integrator's Guide** describes how to control the instruments and read data using a terminal program or your own application. It provides full communication grammar for the instruments.

What's what

- **Indicator LEDs:** Power, low battery, and alarm status indicators.
- **DB-9 Serial Connector:** For an RS-232 serial connection.
- **USB Connector:** For a USB connection with a USB-B to USB-A cable.
- **Air Inlet:** Install a filter before the inlet.
- **Air Outlet:** If your instrument does not have a built-in pump, install a pump after the air outlet.
- **Power Connector:** Accepts a 12 to 30 VDC power supply, which is included.
- **Terminal Strip:** Provides connections for an alternative power supply, alarms, and digital-to-analog converter (DAC) outputs.
- **Display:** The display (optional) shows the current readings of gas concentrations, temperature, and pressure.
- **Pump:** An internal pump (optional) flows air at about 0.75 liters per minute.

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Get started

Step 1: Install the software

Go to www.licor.com/env/support, select the **LI-830 & LI-850**, then select **Software**. Choose the software for your computer operating system (Windows® or macOS®), download it, and then install it on your computer.

Step 2: Connect the power supply to power on the instrument

Each LI-850 and LI-830 includes a universal power supply, which is compatible with 100 to 240 VAC, 50 to 60 Hz power. You may need to change the outlet adapter on the power supply if it will not fit into your electrical outlet. Connect the universal power supply to a power outlet, then connect it to the power connector on the instrument.

USB Cable

Air Inlet Filter

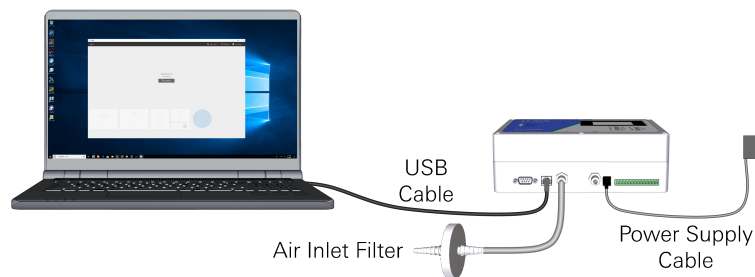Power Supply Cable

Step 3: Connect the USB cable

Each LI-850 and LI-830 includes a standard 1.8 meter USB-A to USB-B cable. It connects the USB port on your computer to the USB port on the instrument.

Step 4: Connect to the instrument

Open the LI-830 & LI-850 application software. Click **Connect** in the center of the software window, and then select your instrument from the list.

Step 5: Configure the instrument

You will see data stream onto the graph. You can configure the alarms, DAC outputs, and other settings in the software. Be sure to install a filter on the air inlet.

Get support

Looking for the calibration certificate or more documentation? Need technical support? Contact us at www.licor.com/env/support.

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