



Getting Started — SDK — 831 & LxT

SIMPLER COMMUNICATIONS

This Software Development Kit (SDK) – toolkit for developing custom applications in MS Windows® or Linux – includes example code and everything else you need to communicate with the Model 831, LxT or 831-INT-ET. Usage of the SDK requires that you accept the included License Agreement found in the Documentation folder on the CD.

We are committed to helping you succeed. The CD contains a bin folder which holds the executables, a documentation folder, an Include folder holding header and support files, SampleCode and Sample Prerequisites folders which can be used to help you develop your own application. Review the ReadMe.pdf.

Larson Davis provides complete solutions for noise and vibration measurement and analysis. From stand-alone, simple-to-use instruments to complete systems including sensors, data acquisition, and software, Larson Davis has what you need.

As a division of PCB Piezotronics, Inc., Larson Davis guarantees Total Customer Satisfaction through our outstanding limited warranty; no-charge, 24-hours toll-free technical support; global distribution; and worldwide customer service.

24350 Indoplex Circle, Farmington Hills, MI 48335 USA

Phone 716-926-8243 | Toll-Free in USA 888-258-3222

Fax 716-926-8215 | Email sales@larsondavis.com

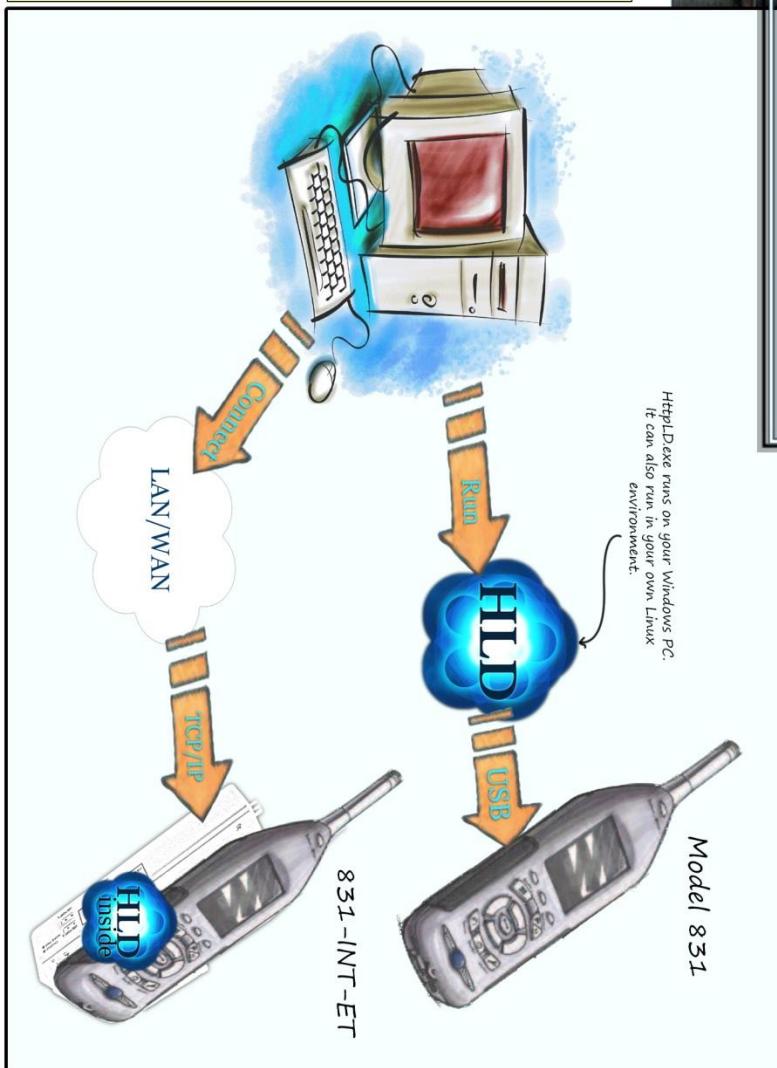
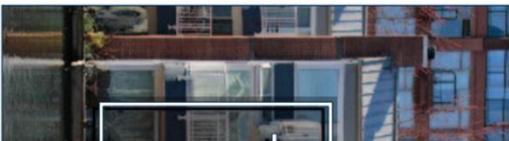
Website www.larsondavis.com

ISO 9001 CERTIFIED

With the new SDK, you can connect to an 831 with ease. Whether you choose Windows or Linux, there is a solution to meet your needs.

HttpLD (HLD) allows you to use standard web protocols to obtain the data you need. Configuration of the meter uses JSON. Data is transferred through HTTP(S) over TCP/IP.

We provide sample code for C#, C++ and HTML5/Javascript. Shortly after installing G4 and the SDK you will be able to communicate with a meter.





Let's Get It Started

Using Windows for your development platform is a great choice. The HttpLD (HLD) runs natively in Windows and we have great support for you on this platform. Most of the samples will run without any modification. Just follow these steps and you will be up and running:

1. Install G4

By installing G4, all of the prerequisites will be installed, simplifying your setup process. C++ and C# libraries will be placed in the correct locations, allowing faster setup.

2. Create a Development Folder and Copy the SDK

Set up your project folder structure that you will use for your development. Then open the SDK CD and copy the entire contents to your project folder. This will give you access to the actual SDK, documentation and sample code.

3. Connect to an 831

Start HttpLD with the correct parameters.

1. Connect an 831 meter via USB. (firmware version 2.301 or greater)
2. Start a command prompt and navigate to the “bin” folder in your project folder.
3. From the command prompt execute:
 - a. `HttpLD.exe -p 2508 -c USB;0;300`
 - b. There are a few other parameters that are available, but for now this will provide you connection to the first meter that is connected via USB.
4. You may test access by using a browser and navigating to:
 - a. <http://127.0.0.1:2508/sdk?func=getData&id=100>.
 - b. This will return the Measurement Properties of the Instrument.
5. You may also display the meter's screen in Chrome by similar navigation.
 - a. <http://127.0.0.1:2508/sdk?func=getData&id=4000>

That's it. You are now communicating with your 831 through the SDK. With this kit, you can gain access to all kinds of functionality on your meter. Check out “Using HttpLD (SDK).pdf” in the documentation folder to find out more on how to use your meter with the SDK.