# LoadVUE Pro: LV-1000

Software Overview

Loadstar Sensors provides easy-to-use software to display or log or plot sensor data easily on a PC or Tablet running Windows 8/10/11. When your application needs customization or features that are not present in any of these standard versions, we will be happy to customize it for you for a nominal cost. Please note that Loadstar software is only compatible with sensors and interfaces offered by Loadstar Sensors.

LoadVUE Pro - Single Channel Software

Our flagship software works with any of our load cells with digital output (USB or Wireless XBee). You can change units, see Peak and Low Values, send out alerts, recalibrate load cells, get remote support and have easy access to tools like Putty and Device Manager, all from within the software. We highly recommend that you purchase this software, even if you plan to write your own software in the future.
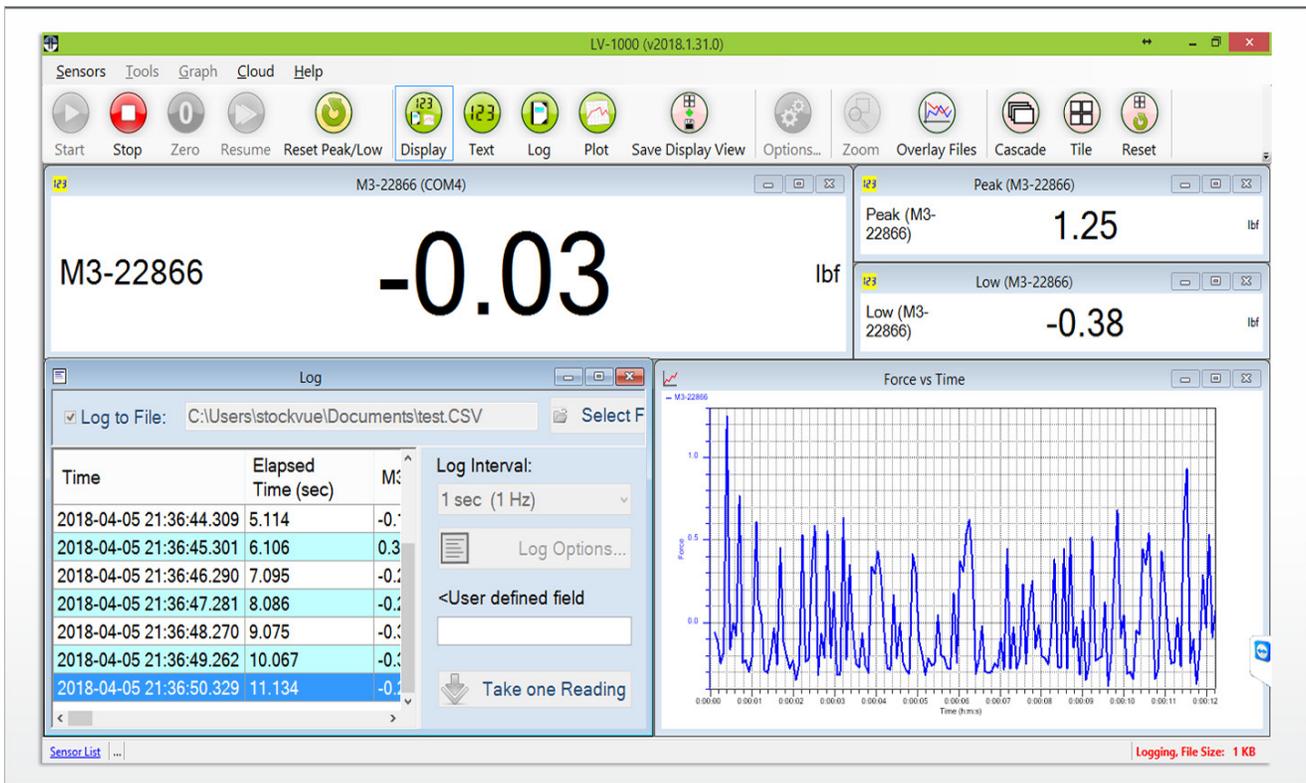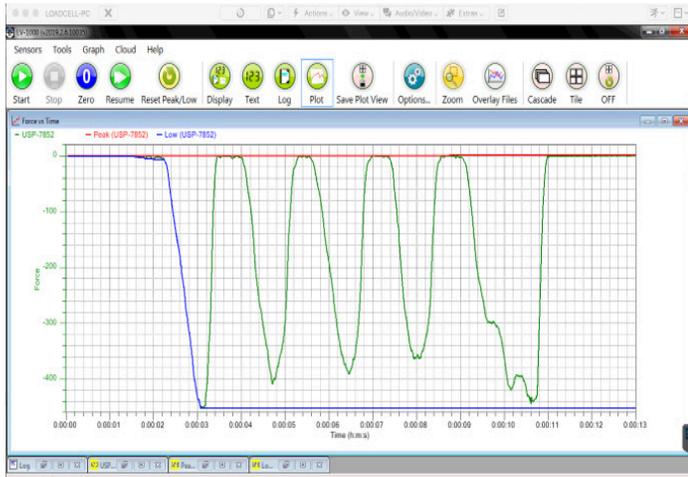

Description

LoadVUE Pro software enables a user to display the load/force/weight information on a PC or Tablet from one connected digital load cell or load cell + interface pair.

A user can also compute derived values from raw sensor data by simple computations. These derived values can also be displayed, logged, and plotted easily.

Highlights

- Supports 1 Channel only
- Displays Force/Weight data
- Data Rates up to 1 kHz
- Display, Log and Plot Data
- Change Units, Data Capture Rate
- Show Peak and Low Values
- Size and Place Elements as needed
- Includes:
    - Calibration Utility
    - Remote Support
    - Easy Access to Putty & Device Manager

www.loadstarsensors.com • sales@loadstarsensors.com • Specifications subject to change without notice.

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LoadVUE Pro

Plot

Log

Raw sensor readings as well as Peak and Low values can be plotted as a X-Y (Force vs. Time) plot. Additional data such as derived values (Formula sensors) as well as averaged and /or median readings can also be plotted to remove unwanted sensor noise, damp vibrations etc.

Data can be logged to Excel compatible CSV files. Depending on the sensor, data logging at different rates can be captured from a drop down list up to a maximum of 1000 Hz. For data rates up to 50 kHz use LV-1000HS-10K software.


Alerts

Calibrate

Formula Sensors
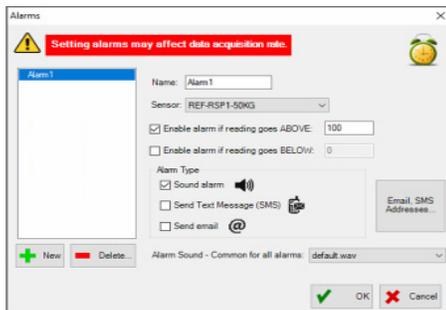
Audio alarms can configured to trigger when specific conditions are met, for example, when load exceeds a specified limit. Emails and/or text messages can be sent when audio alarms are triggered.

You can use this feature during manufacturing operations to let a technician know when a certain force threshold has been met.
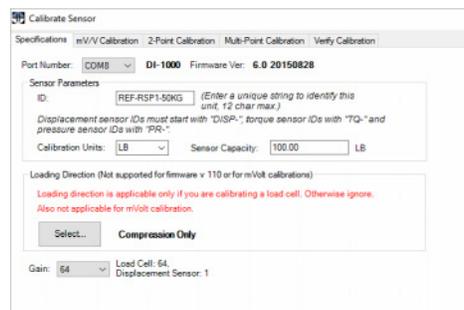
A utility to calibrate your digital load cells is included in the package. You can simply enter the mV/V values provided by the manufacturer or perform a 2-point or multipoint calibration and burn the coefficients into the sensor or interface.
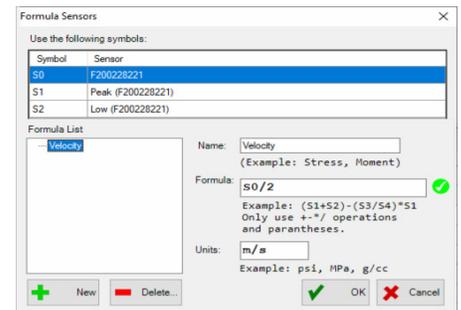
Combine one or more sensors to create a virtual sensor. Simple formulas (using the 4 basic operations: + - * /) can be used to create a virtual sensor. For example, if you are using a force sensor and know the area under the force, you can plot the stress by creating a formula Force/Area. You can then log, plot, set alarms on, etc. on these virtual sensors just as you would on a real sensor. You can even combine formula sensors to create a new formula sensor.