



Software Help Manual

HD350 Manometer/Anemometer



Software Introduction

This application program can collect data from the HD350 in Real-Time when the meter is connected to a PC. The data is plotted graphically and can be saved as a graph and as a table in a CSV formatted file.

Note: The maximum number of data points that can be collected is 5500

System Requirements

Operating System: Windows 7, Windows 8.1 and Windows 10

Minimum hardware requirements

- PC with 1GHz or faster 32-bit (x86) or 64-bit (x64) processor
- 1GB RAM for (32-bit) OS or 2GB RAM for (64-bit) OS
- At least 100 MB hard disk space for the supplied software
- DirectX 9 graphics device with WDDM 1.0 or higher driver
- 800 x 600 display resolution

Software Installation

Download the HD350 software from the Extech.com/software web page.
Run the **ExtechInstaller.exe**

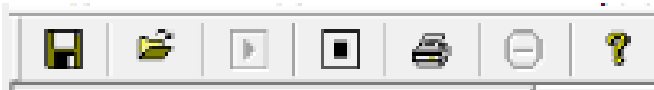
Select **Software** button to begin the installation of the device software. Proceed through the software installation wizard using the default settings.










Click on the **Drivers** button to begin installing the USB driver.
Proceed through the installation wizard using the default settings.



Main Menu



	Save	Save the recorded Real-time data to the PC
	Open	Open a saved data file
	Record	Begin collecting Real-time data
	Stop	Stop recording Real-time recording
	Print	Print the Real-time data as a graph
	Undo Zoom	Undo zoom of the graph
	Help	Open the Software Help document

Operation

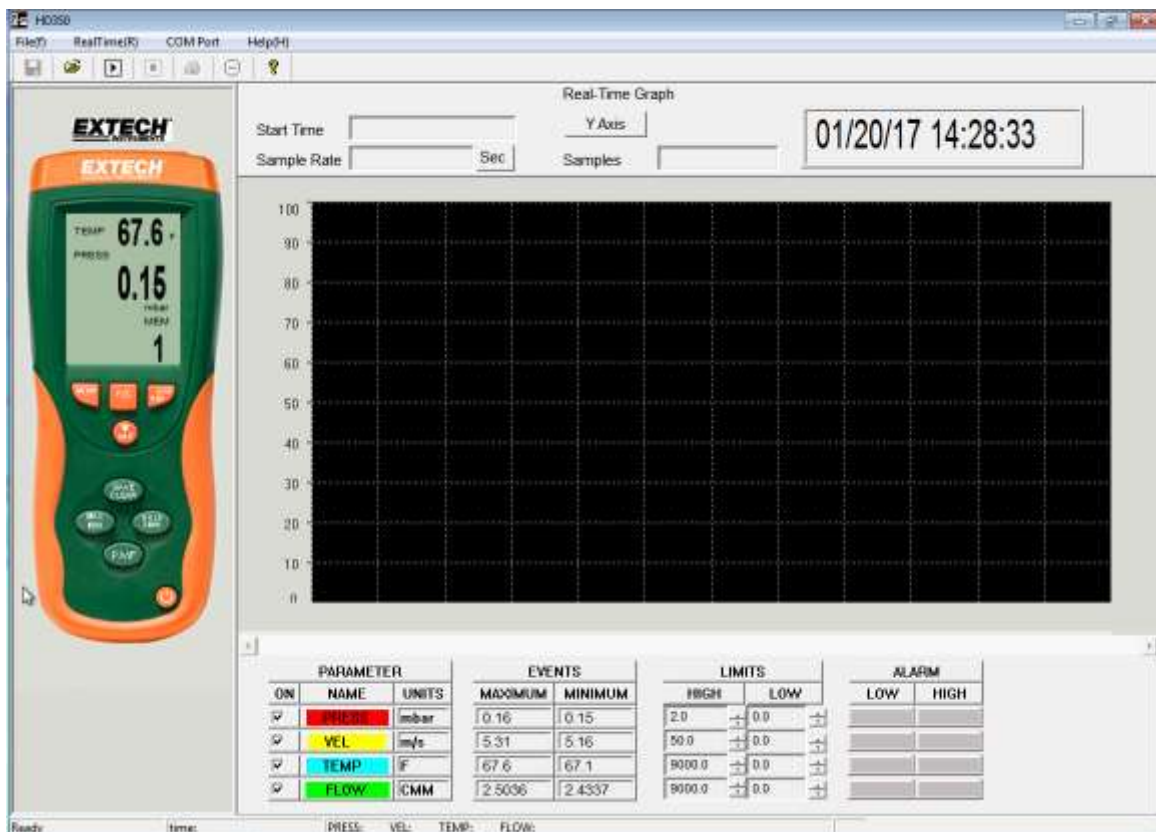
Initiating Communication

1. Power the meter
2. Connect the meter to the PC USB port using the supplied USB cable
3. Run the HD350 software program
4. Use the AUTO DETECT or the MANUAL DETECT utility located under the COM PORT menu to select the PC COM PORT number. The proper COM PORT number must be established before communication can begin.
5. When communication is established, the meter's display and the virtual meter display (software window) will indicate the same values.
6. If communication is unsuccessful the virtual meter will display "OFFLINE"

If communication fails, check the Windows Device manager under PORTS, and locate the Silicon Labs driver entry. Note the COM port number assigned and manually set the HD350 Com port to this value.

Successful Connection

Meter is actively displaying data.



Real-Time Data Recording

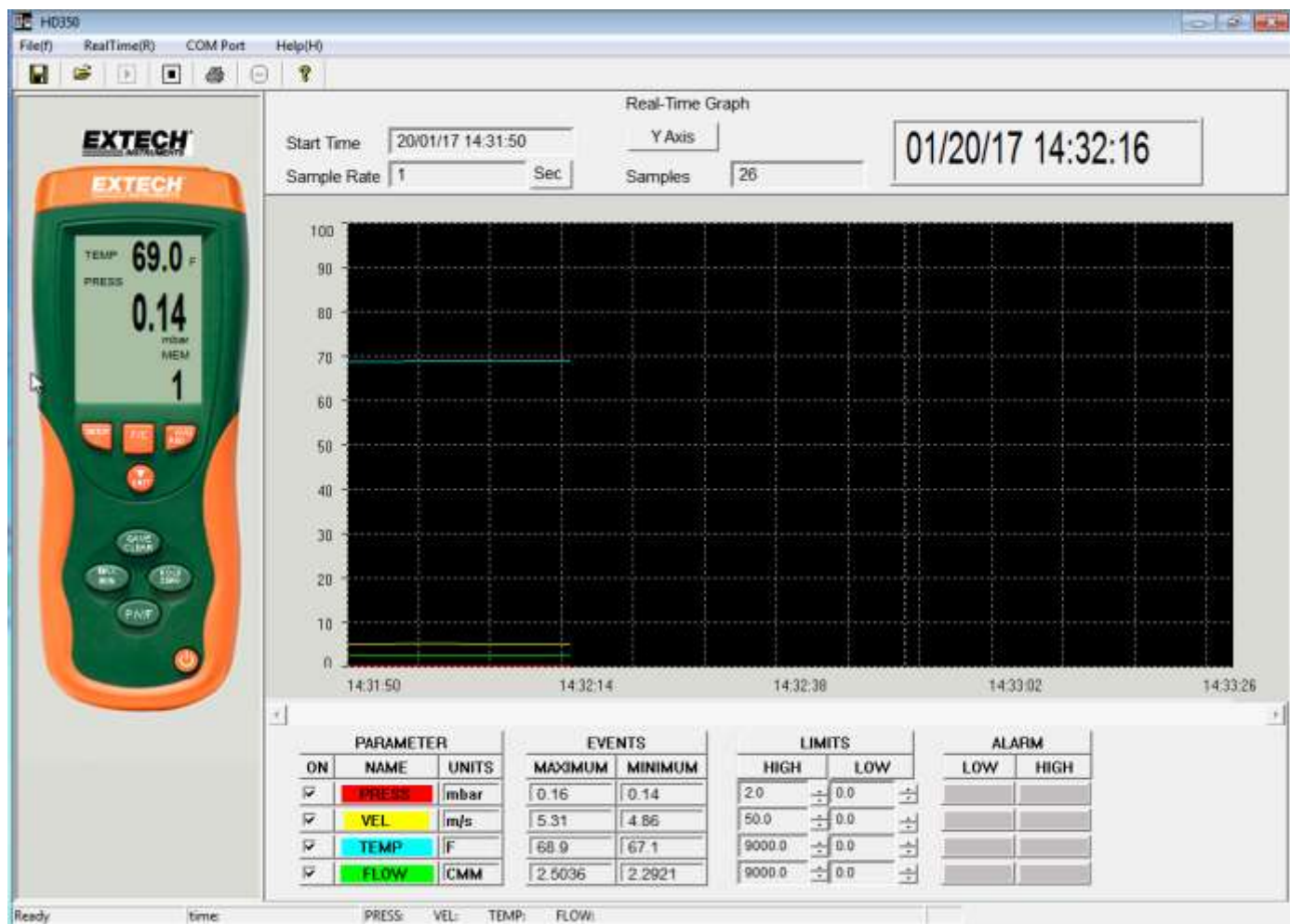
Click the  Run button to Start a Real-Time data recording.

The Sample Rate dialog box will open.


Set the sample rate, enter the desired value (in 1 second increments) in the dialog box, Click “OK”.




The Real-Time data will start plotting on the Graph Window

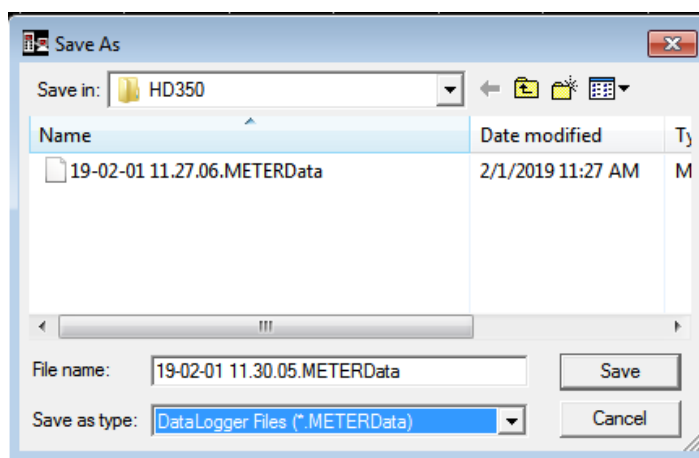


Stop a Real-Time Data Recording

Click on the Stop  button to stop the Real-Time recording.

Save the Recorded Real-Time Data to a file

Click the Save  icon to open the file save dialog box.



The default file name is created with the date and time.

Name the file and save it with the default extension.

The file is saved with the “.METERData”. extension to be reopened in the HD350 program as a graph and also saves the data as a “.CSV” file to be opened in a spreadsheet program.


Viewing a Real-Time Graph



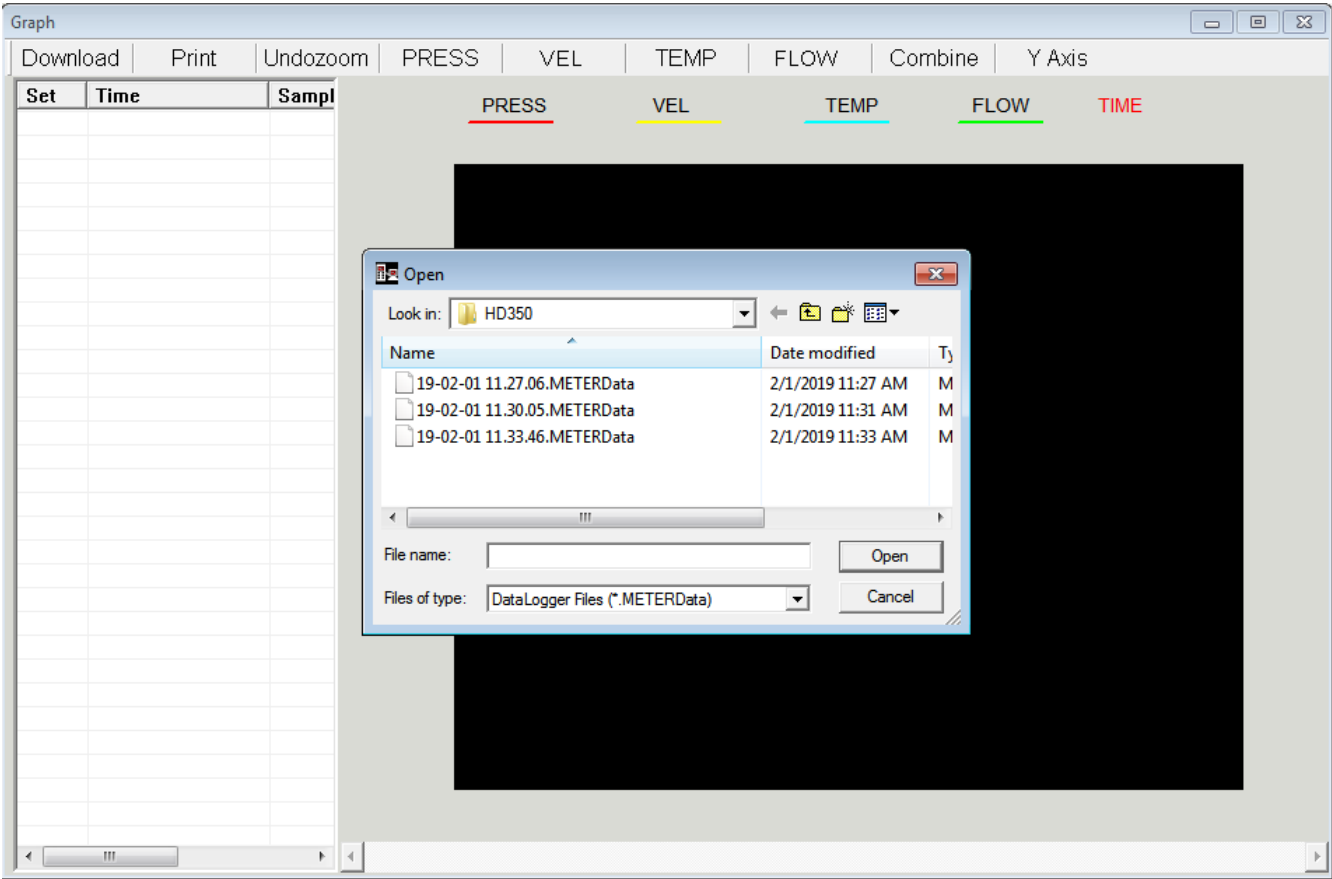
- Start Time** The start time of the Real-Time data collection.
- Samples** The number of samples taken.
- Sample Rate** The selected sample rate is displayed
- Parameter** Measured parameters displayed are listed.
- Events** Parameter Maximum and Minimum values are displayed.
- Limits** High and Low alarm Limits can be set
- Alarm** High and Low alarm indications will be shown.

Data values and Time appear at the bottom of the window relate to the placement of the cursor on the graph.

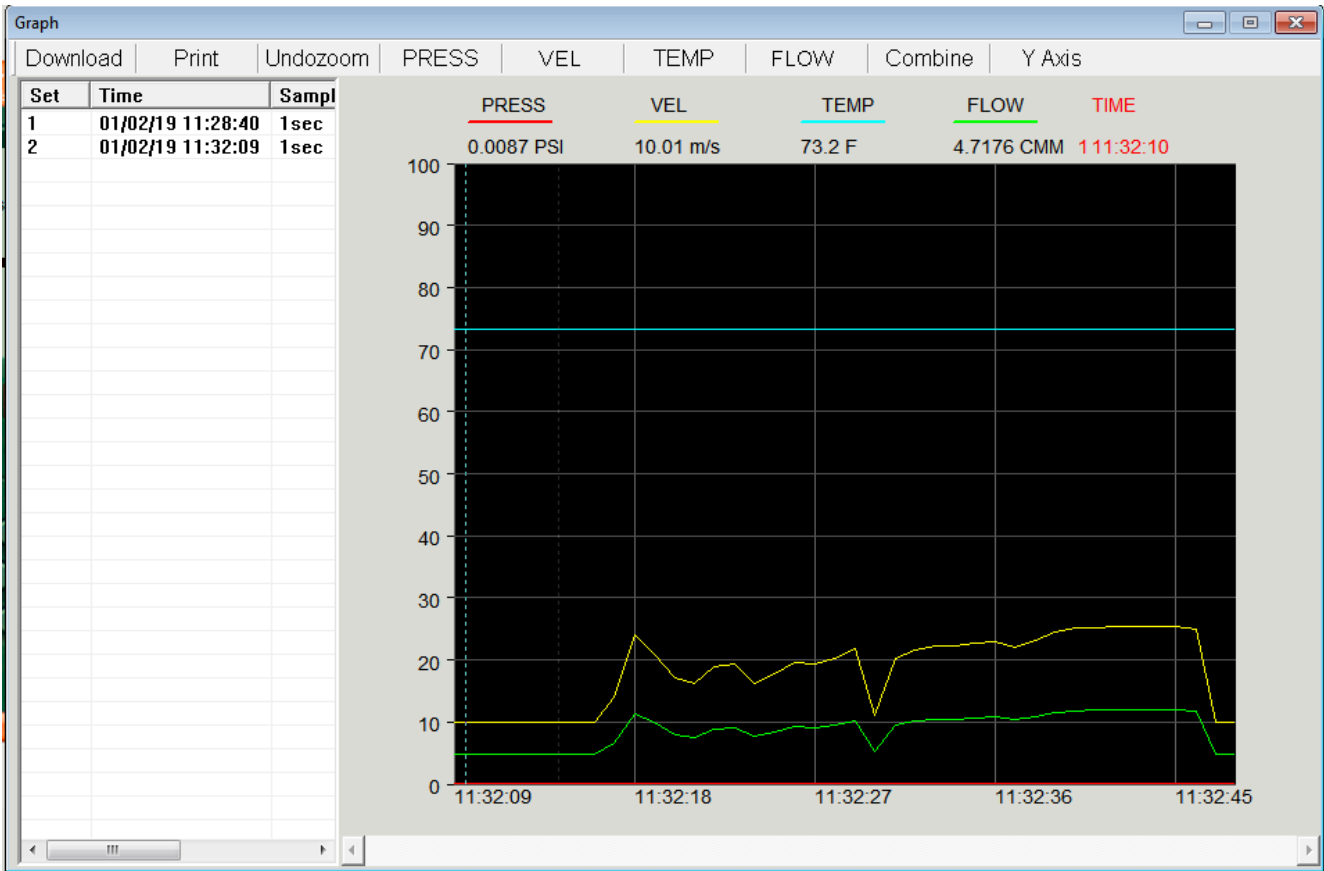
Opening a Saved Graph File

Click the  icon to open a saved file (.METERData).

The opened graph supports Printing, Open files, Zooming and Cursor data point selection



Viewing a Previously Saved Graph File



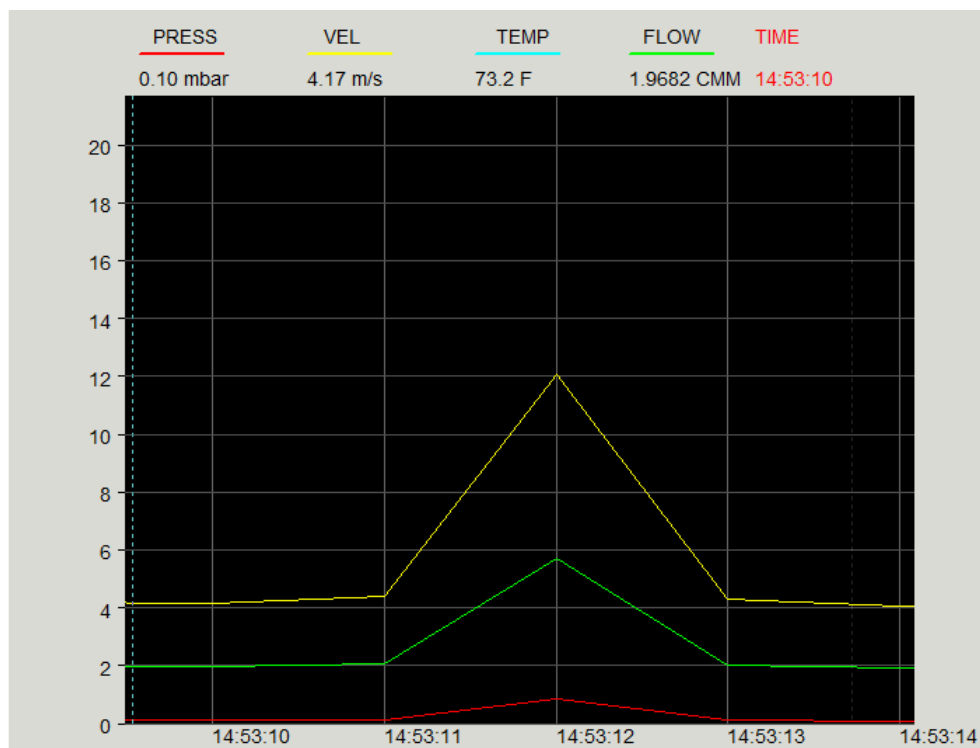
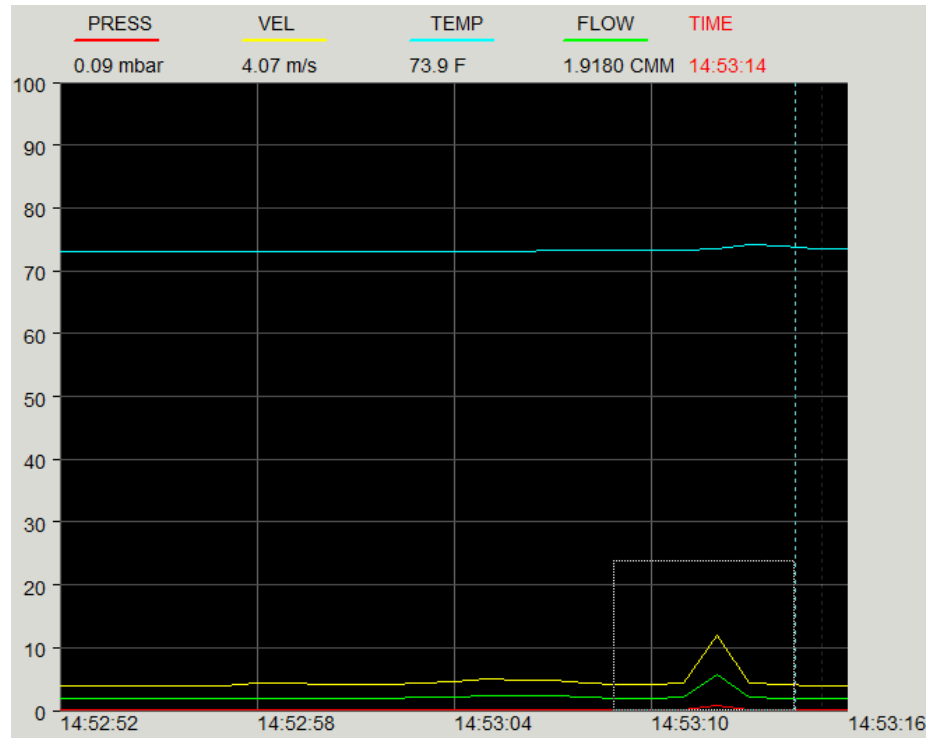
View options: Zoom, Y axis settings, add or remove data plots, and printing.

ZOOM Graph Data

Zoom in: Press and hold the left mouse button and drag a rectangle around the area to be expanded. Release the mouse button.

Use the horizontal scrollbar to scroll through all the data.

Zoom out: Click on the UndoZoom button to see the Full View

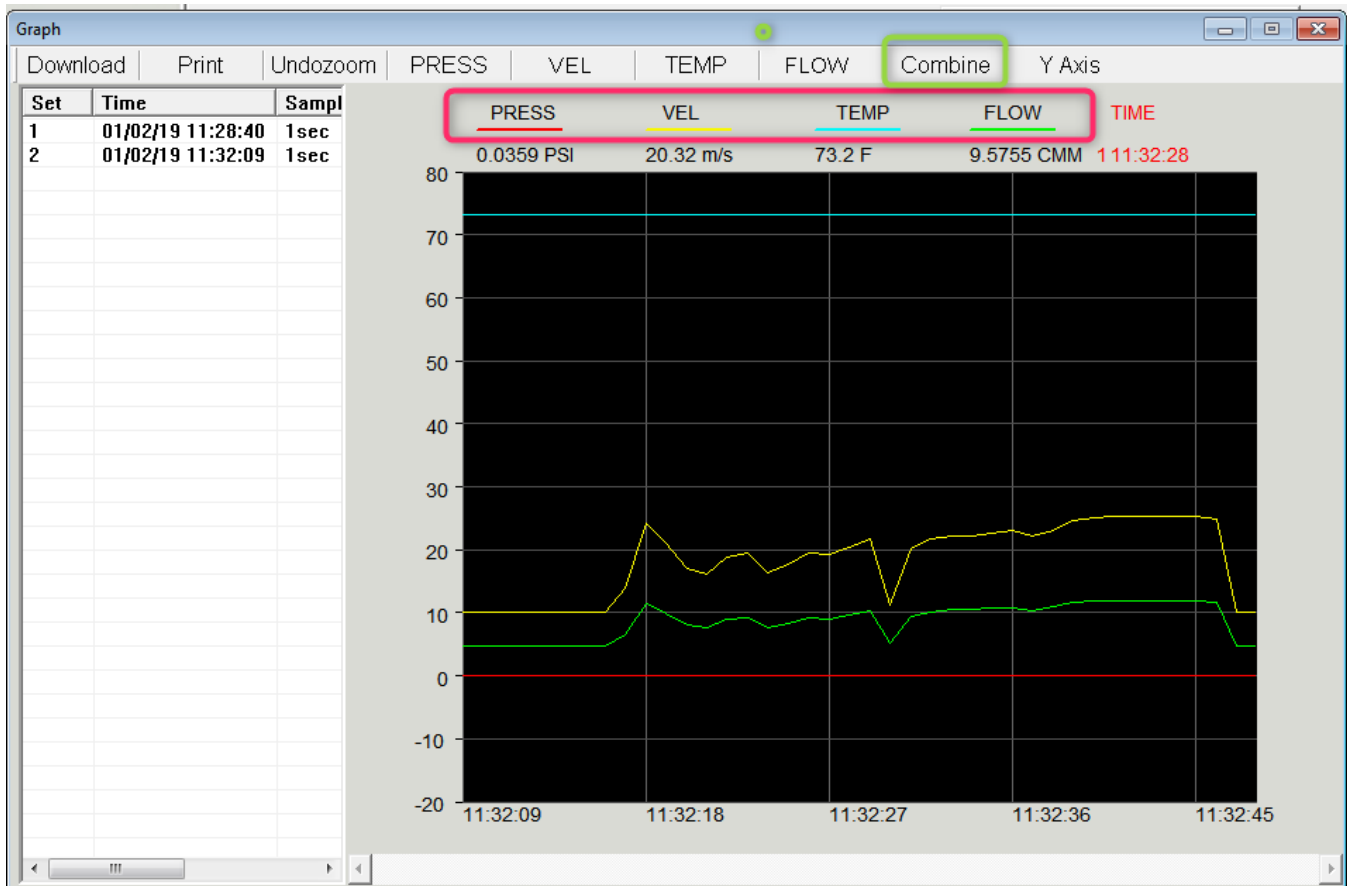


Select Data for View

Click on the Parameter selection items to include or exclude that data from the graph.

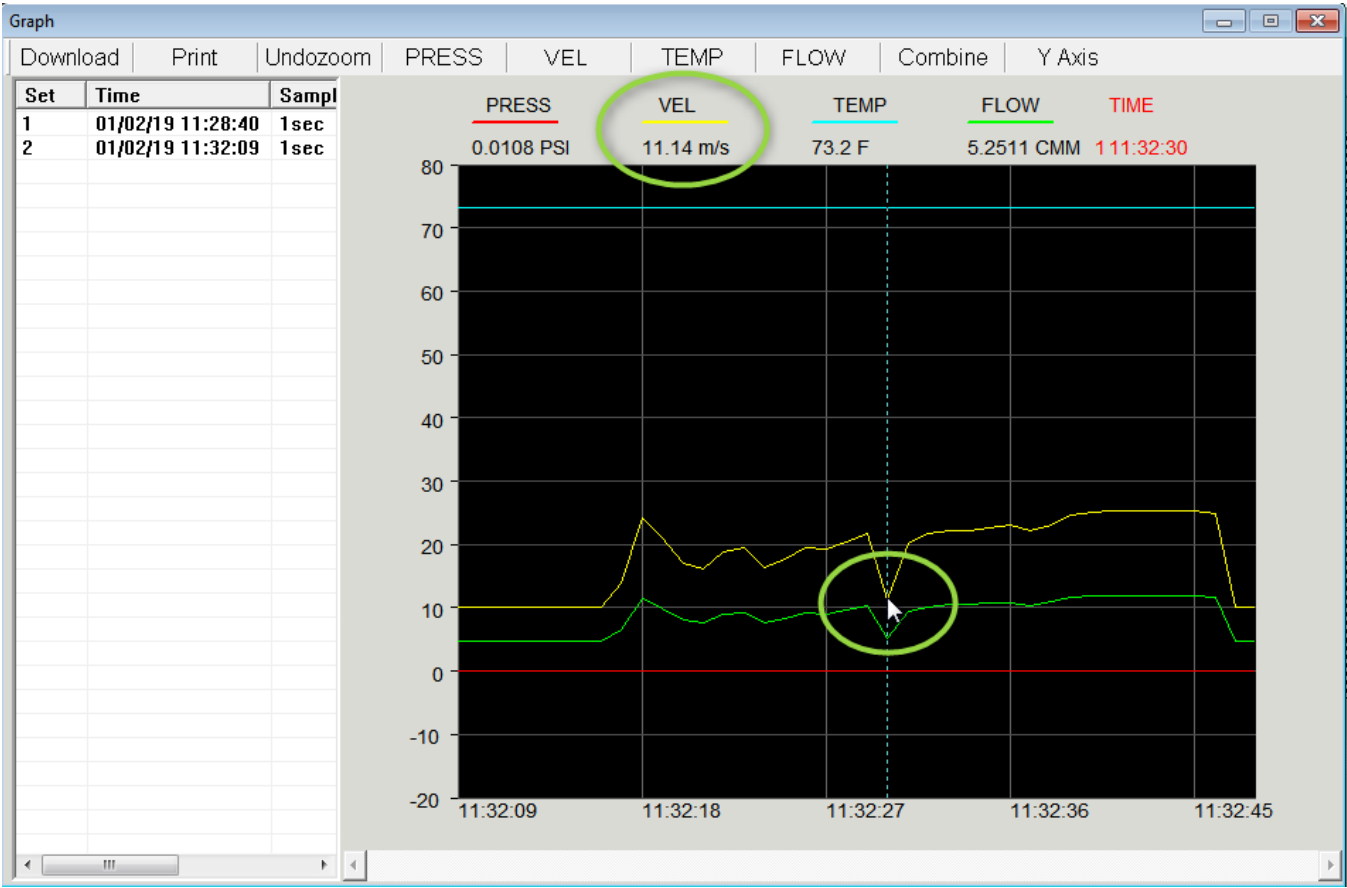
PRESS (pressure), **VEL** (Velocity), **TEMP** (Temperature), **FLOW** (Air flow),

Combine (All data values are displayed on the graph)



Cursor

The cursor appears at the mouse location on the graph. The Measurement value and Time for a given data point selected by the mouse on the graph, is displayed at the top of the graph.



Y Axis Offset and Gain

Click **Y AXIS** button to change the vertical axis offset or the full-scale range (gain).

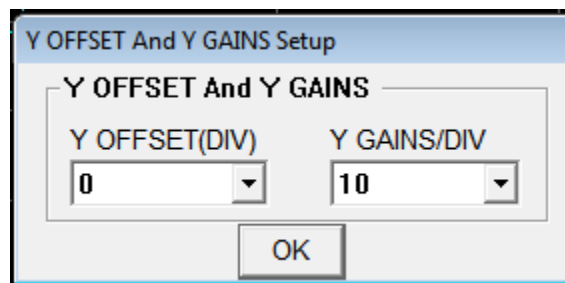
Y OFFSET

There are 5 Offset value selections 0, 2, 5, -2, and -5

Y GAIN

There are 12 Gain value selections ranging from 1 to 100,000

For example, if Y OFFSET is set to '0' and Y GAIN is set to '10', the Y Axis will range from '0' to '100' in increments of '10'.



Printing

Click on PRINT to send a copy of the graph to a printer.

Contact Customer Support

Technical Support: <https://support.flir.com>

Copyright © 2017-2019 FLIR Systems, Inc.

All rights reserved including the right of reproduction in whole or in part in any form
ISO-9001 Certified

www.extech.com