



HD300

THERMO-ANEMOMETER

SOFTWARE HELP MANUAL



SOFTWARE INTRODUCTION

This software allows the user to record data from the meter when it is connected to a PC. The data may be displayed graphically, as text or exported to a CSV formatted file for viewing with Excel or similar programs.

Maximum number of data points that can be recorded is 10,000

System Software Required:

Windows 7, Windows 8.1, and Windows 10

Minimum Hardware Required:

PC with Pentium 90MHz or higher 32 MB RAM

At least 5 MB byte hard disk space available to install the serial software.

Recommended display resolution 1024X768 with High Color (16 bit).

Software Installation

Install the supplied Windows PC Datalogger Software by placing the supplied program disk in the PC CD-ROM drive. If the installation program does not automatically open and provide on-screen prompts, double click the **ExtechInstaller.exe** file included on the program disk.

Follow the on-screen prompts to complete the installation.



Install USB Driver

Install the USB driver by clicking on the Drivers button. Choose the default selections to load the USB driver for this meter.










MAIN MENU



Menus

FILE	Manage data files (save, Open, Print, Exit program)
Real Time	Start and Stop a Real Time logging session
COM Port	COM port selection
Help	Help About – Software Version Software Help document

Icons

	Save	Save the recorded real time data to the PC
	Open	Open a saved data file
	Real Time	Start collecting real time data
	Stop	Stop collecting real time data
	Print	Print the real time graph.
	Zoom	Undo zoom on graph
	Help	Open the Software Help document

OPERATION

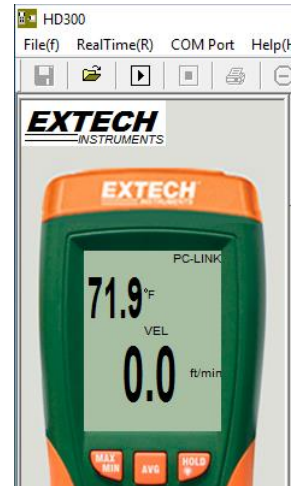
Start communication

Power on the meter and connect it to a PC USB port.



Start the HD300 software program.

If the connection is successful, the panel will display the same value as the meter display.



the

If the connection fails, the software will display "OFFLINE" on the panel window.



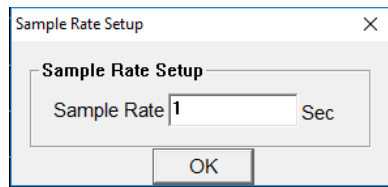
If it fails to connect, choose another serial port from the COM port menu until the connection is successful.

If this is not successful, open the Windows Device manager and expand PORTS. Locate the Silicon labs driver entry and note the COM PORT number.

Click on the COM Port menu and choose this COM port number. Click OK.

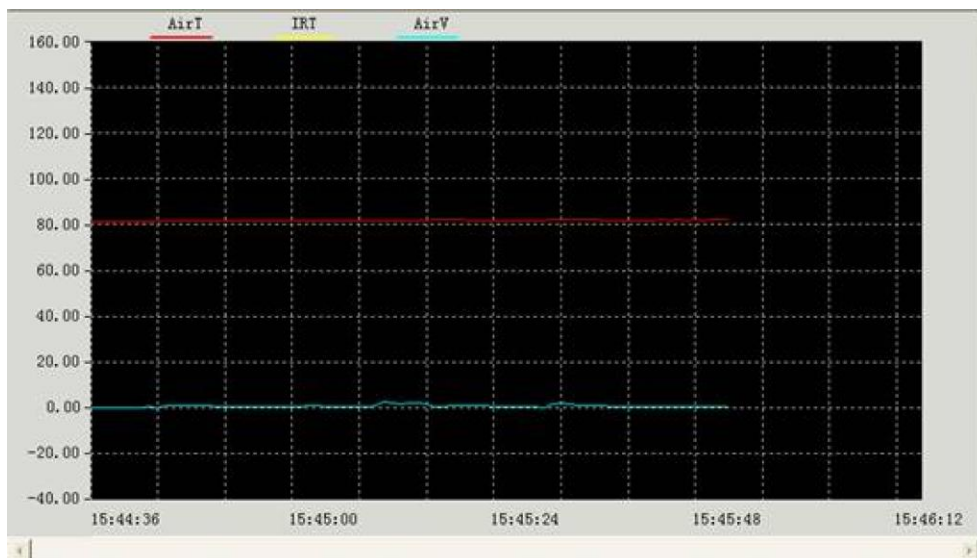
Recording Real Time Data

1. Click  and the Sample Rate dialog box will open.



2. Enter a number (1 or greater) in the edit box to set the sample rate in seconds. Click "OK".

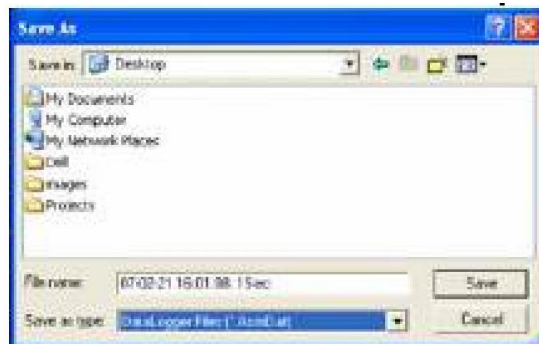
The data will start plotting on the Real Time Graph Window



3. Click the Stop icon  to stop the recording.

4. Click the Save icon  to save your data to the PC.

Name the file and save it with the default extension. The file will be saved with the ".AsmDat" extension to be reopened as a graph in the HD300 program and also as a ".TXT" file to be opened in other word processing or spreadsheet programs.



Graph

Graph Display Options:

AirT IRT AirV Combine Y Axis

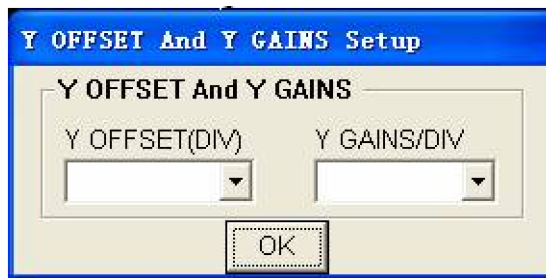
AirT Only display the graph of Air Temperature.

IRT Only display the graph of InfraRed Temperature.

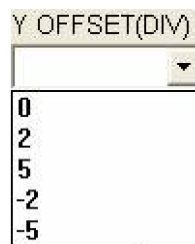
AirV Only display the graph of Air Velocity.

Combine Combine the three graphs.

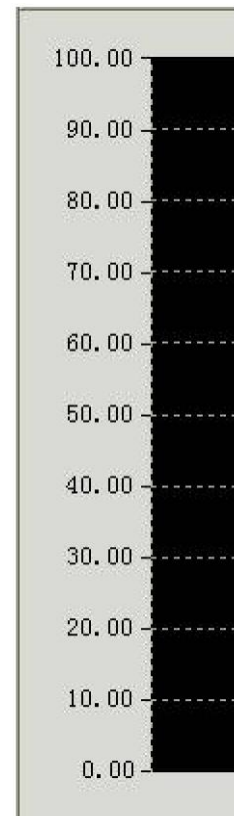
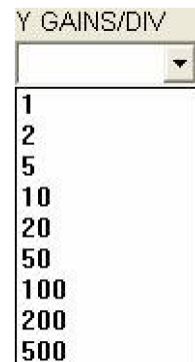
Y Axis Change the Y axis scale



There are 5 values for setting the vertical offset or starting point.



There are 9 ranges for setting the vertical scale division.



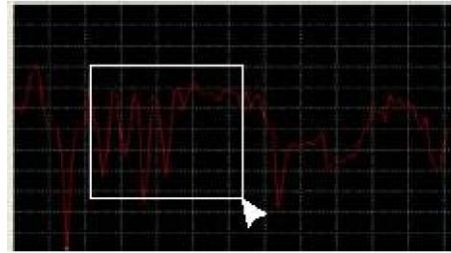
For Example:

Select "Y OFFSET" as "0", and "Y GAINS" as "10", the Y axis range will display from "0" to "100".

Zoom:


Zoom In - Press and Hold the left mouse button and drag a rectangle around the area to be expanded. Release the mouse button. That area of your graph will be enlarged.

Zoom out - click the Zoom out icon



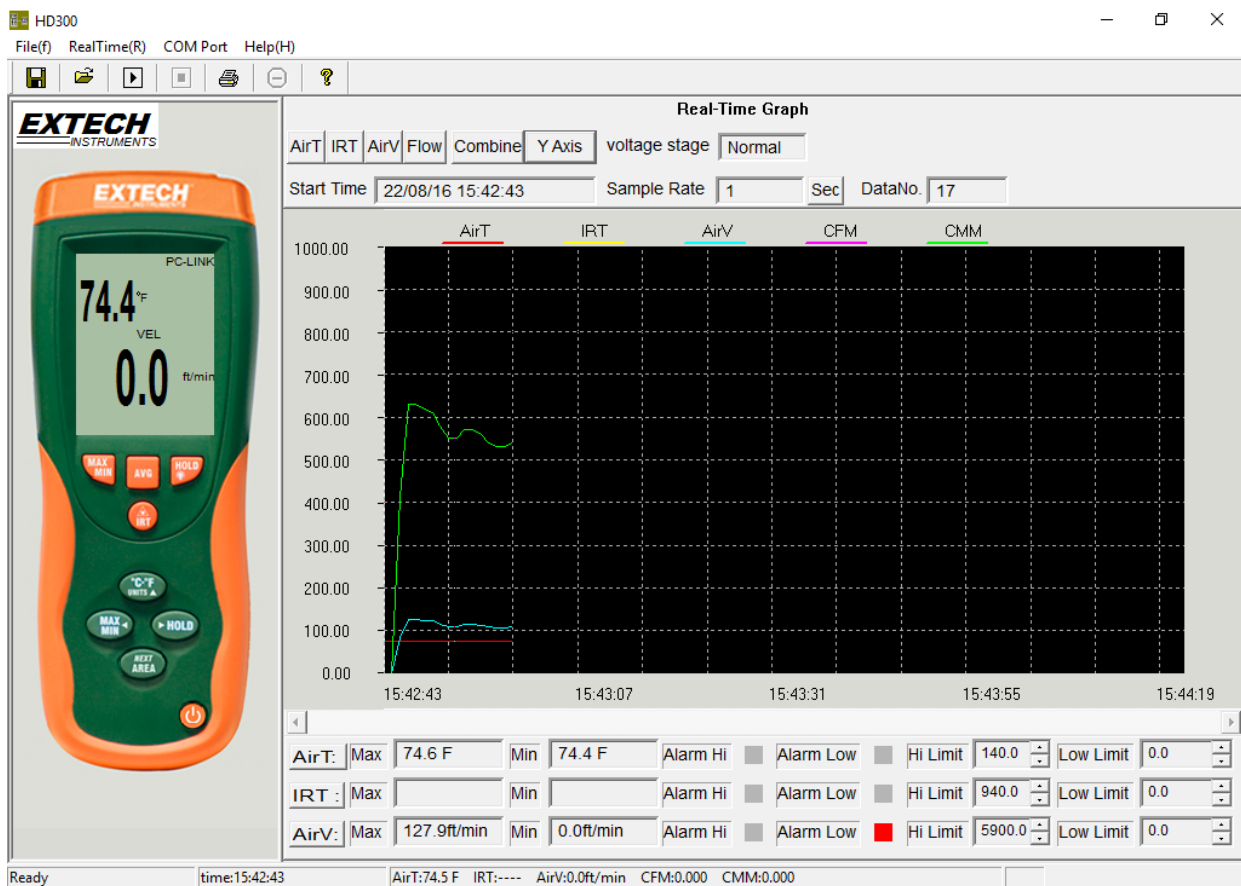
Alarm limits:

Alarm Hi	<input type="checkbox"/>	Alarm Low	<input checked="" type="checkbox"/>	Hi Limit	140.0	Low Limit	0.9
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Click the  Arrow buttons to set the high and low limit or select the number and type in the value in data field.

If the data is over the high limit the square beside the "Alarm Hi" will flash red.

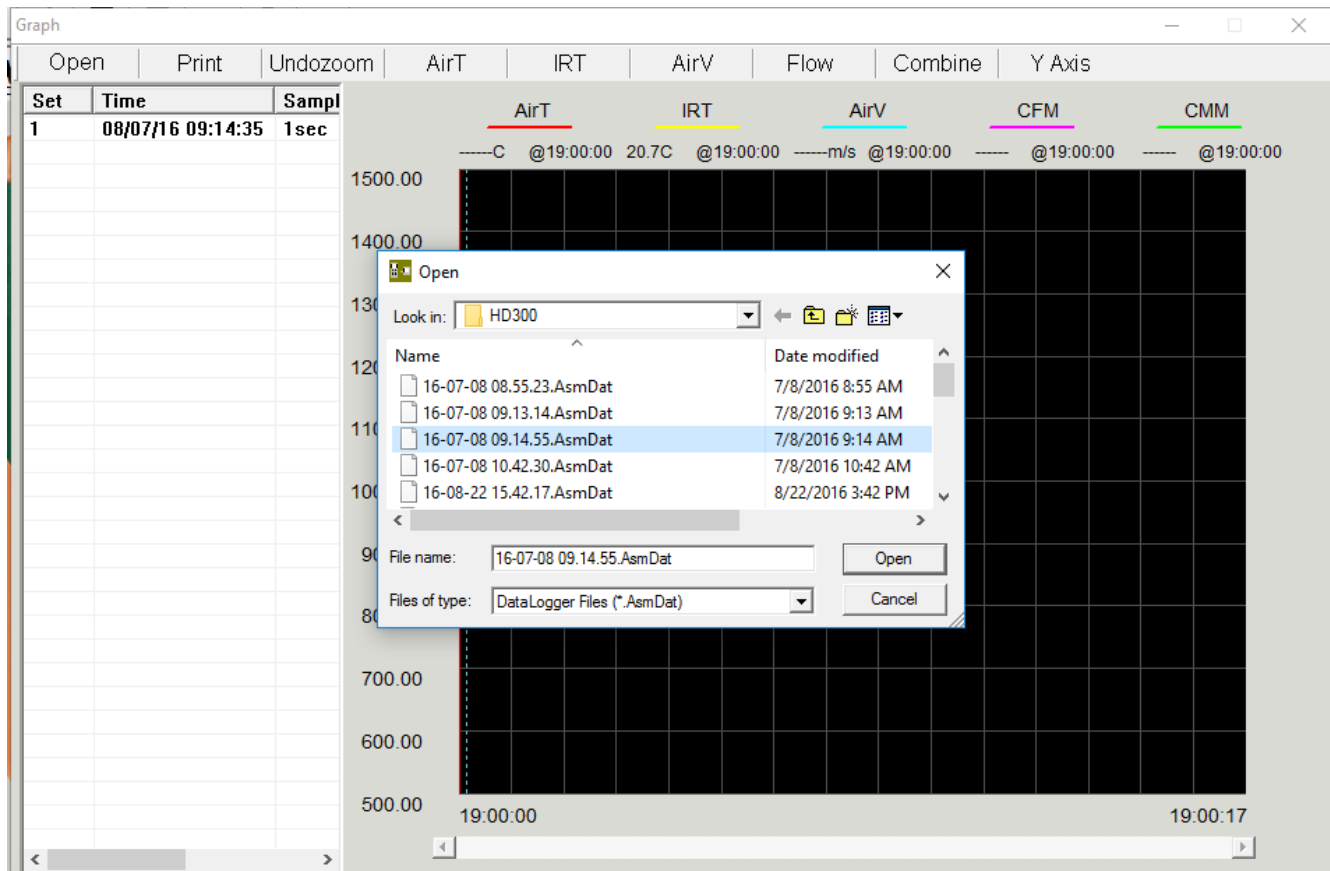
If the data is below the low limit the square beside the "Alarm Low " will flash red.



Open a Saved Data File

Click the  icon to open the Graph window.

Click on OPEN and select a data file to plot on the graph.



The opened graph window supports:

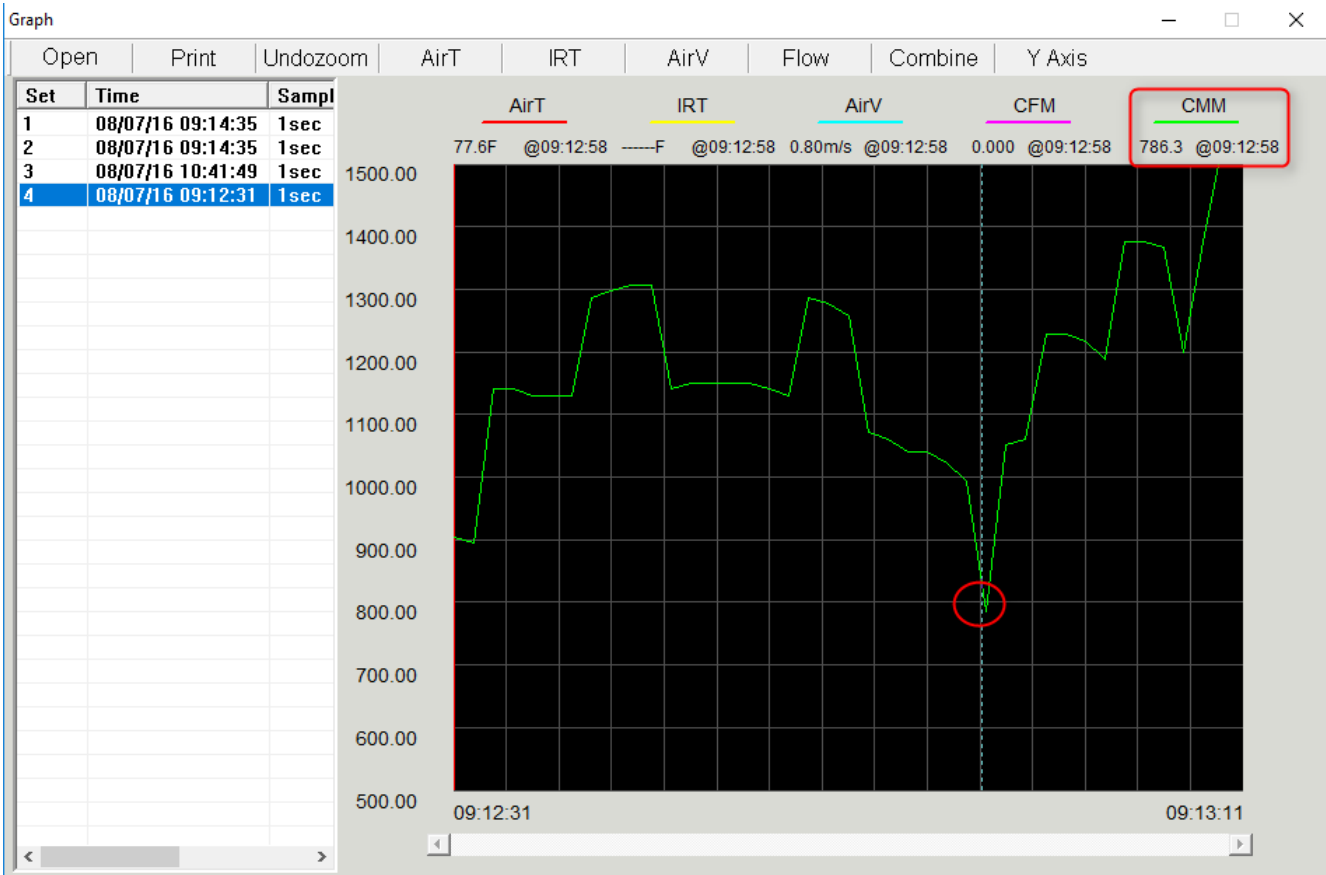
Open files, Printing the graph, Zoom and unZoom, Y Axis Setting, a choice of measured parameters to display on the graph, numbered values displayed, and cursor placement to isolate a data point on the graph.

The left list bar will show how many files were selected to be opened and some information about each file. (Set number, Date and Time of the recording, and Sampling rate used).

Double-Click on a SET number in the list to plot the data on the graph.

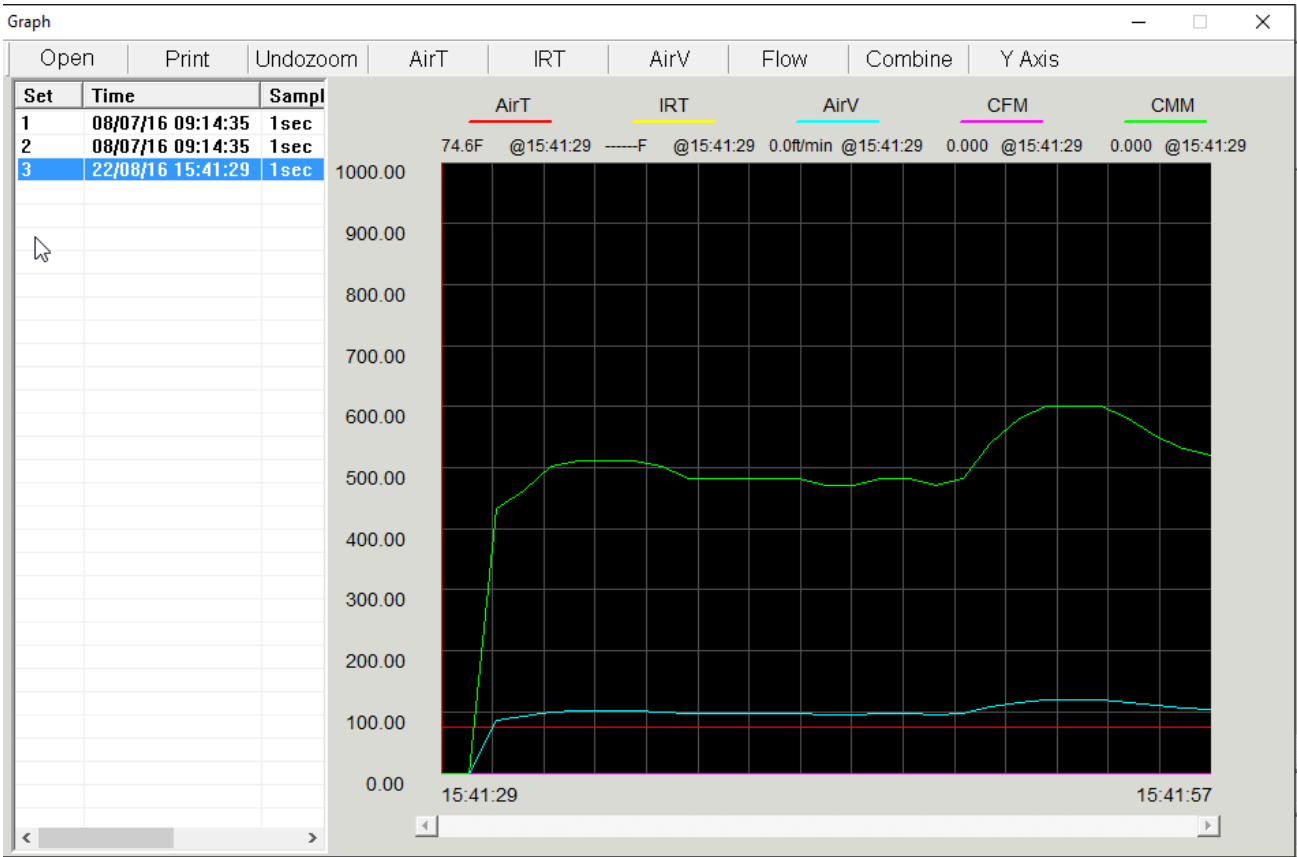
Cursor placement and highlighted values displayed.

Click the mouse on a location on the graph. The numerical value of the location will be visible at the top above the graph for the parameter highlighted.



Click on the Print icon  to Print the graph.

In the printer setup, manually select landscape or portrait view before printing



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