



HD700 Series Differential Manometers

Software Help Manual



Software Introduction

This software is a program for collecting data from the HD7xx series Manometers when connected to a PC. The data may be displayed graphically or exported to a Text file or to Excel.

The maximum number of data points that can be recorded is 17278.

System Required:

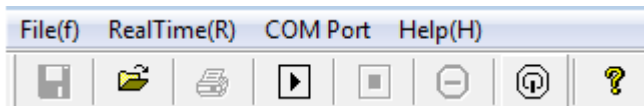
Windows 7 or Windows 8, Windows 10

Minimum Hardware Required:

PC with Pentium 90MHz or higher 32 MB RAM

At least 5 MB byte hard disk space available to install the HD7xx software.

Main Menu



Save

Save the recorded real time data to the disk.



Open

Open the graph window to view a previously saved data file.



Print

Print the graph.



Start

Start collecting Real Time data.



Stop

Stop collecting Real Time data.



Zoom

Undo a graph Zoom.



Power off

Power off the meter.



Help

Open the Help guide.

Software Operation



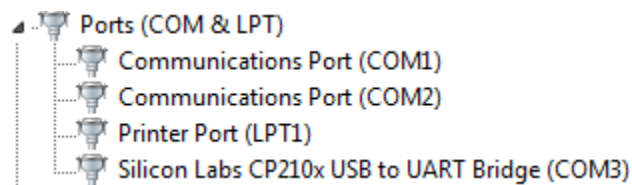
Starting the Software Program

1. Power on the manometer and connect it to a PC USB port with the cable provided.
2. Run the HD7xx software program using the desktop icon or the Start menu entry.
3. If the connection is successful the panel will display the same value as the manometer Display.

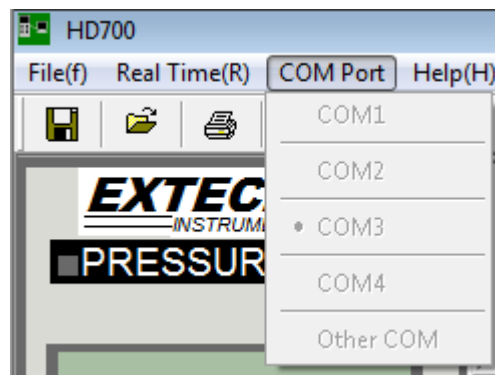


4. If the connection fails the software will display "---" on the display.
If you fail to connect, open the Windows Device Manager and look under PORTS.
Read the COM port number from the Silicon Labs CP210x USB to UART driver.
(COM3 in this example)


Windows Device Manager

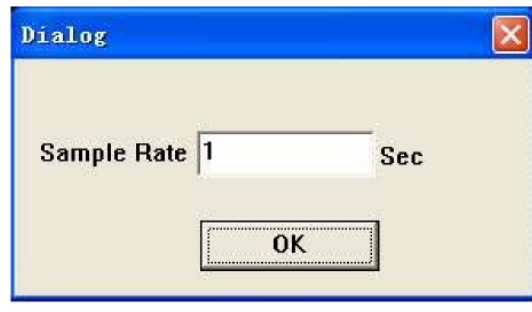


Open the **COM PORT** menu and Set the COM port

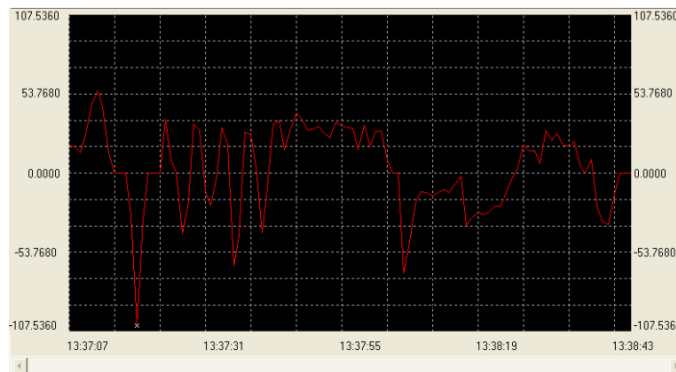


Real Time Data

1. Click the Start icon  and the Sample Rate dialog box will open.
2. Edit the Sample rate field (default is 1 second) and then click “OK”.

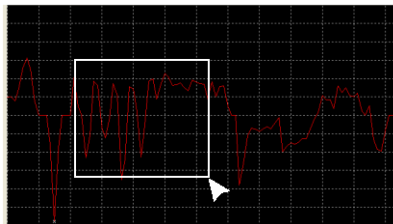


The data will start plotting on the Real Time Graph Window



Zoom in:

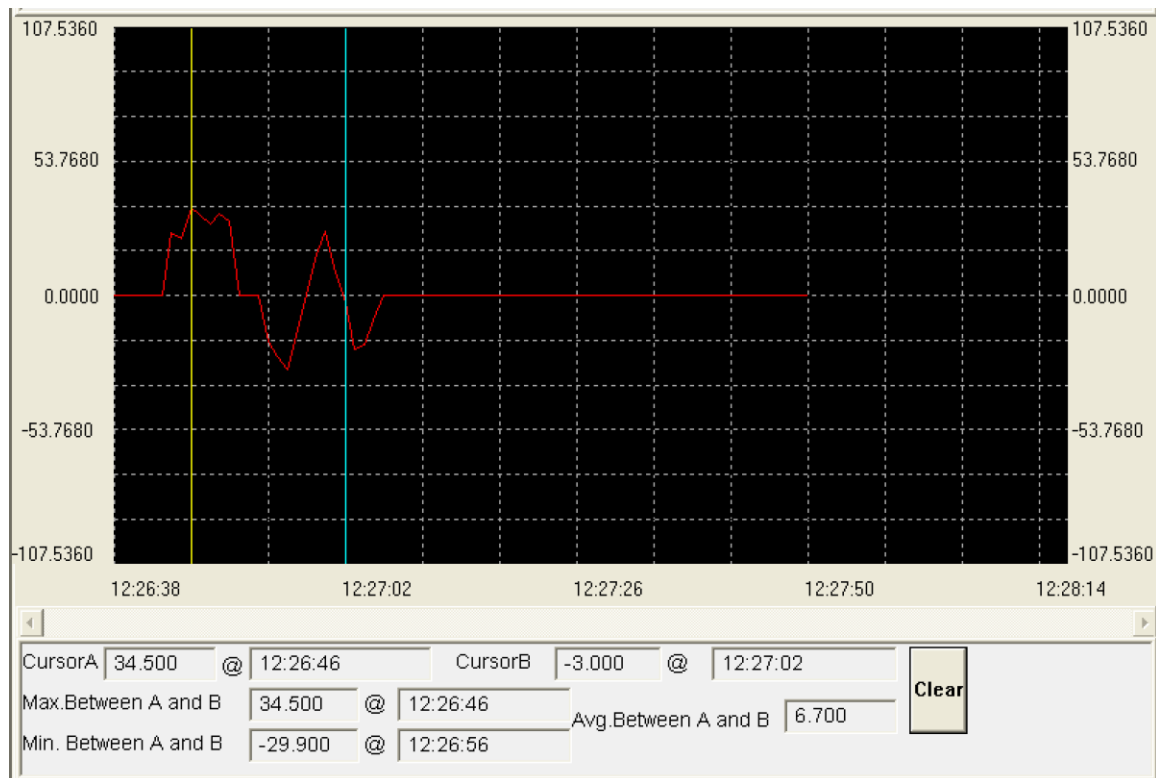
1. Press the left mouse button and drag a rectangle around the area to be expanded.
2. Release the mouse button.
3. Use the horizontal scrollbar to scroll through all the data.



Zoom out: Zoom out to the full view by clicking



Display of Max, Min, Time, and Average in a selected time range





1. Place the mouse cursor on the graph at the start of the signal range of interest and **Right-click**. A yellow vertical cursor will appear on the graph marking the A cursor.
2. Place the mouse cursor at the end of the signal range of interest and **Right-click**. A blue vertical cursor will appear on the graph marking the B cursor.
3. The Max, Min and Avg data from the selected range will appear below the graph.
4. Press the Clear button to remove the cursors and computed data.

Display the Running Max, Min and Average:


Real-Time Graph							
Open	Export Data		Sample Rate	1	Sec		
Start Time	17/09/13 14:13:25		Voltage Stage	Normal	Data No.	27	Avg -0.436
Maximum	6.010	@ 14:13:37	Minimum	-10.910	@ 14:13:43		

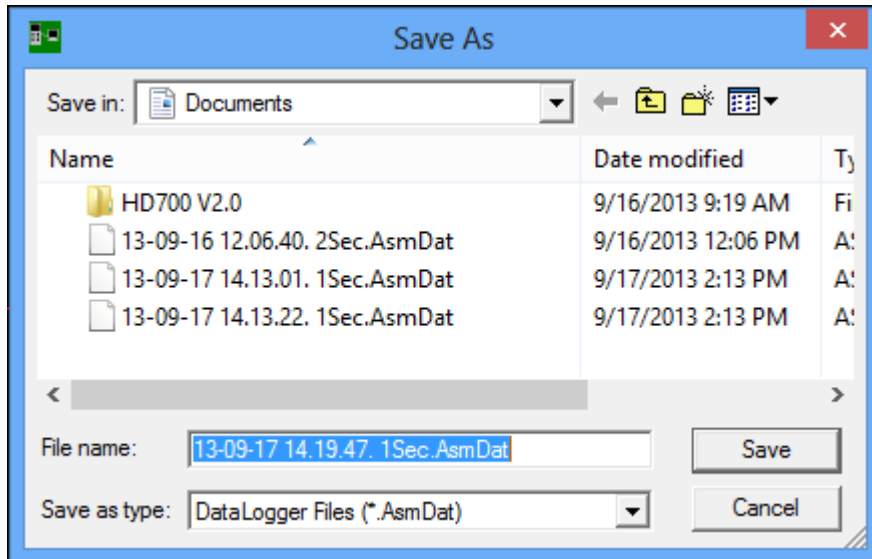
57.5328

1. Click the  button to start a Real Time recording.
2. Click on the REC button to display Max, Min and Average value of the plotted data. The data will appear above the graph.
3. Click the  button to stop the Real Time Max, Min, and Ave recording.

Note: Voltage Stage (Normal) indicates that the meter battery is good.

Save the recorded Real Time data to a file

1. After you Stop your Real Time data recording, Click the  icon to save your data to your hard drive.
2. Select or create a folder.






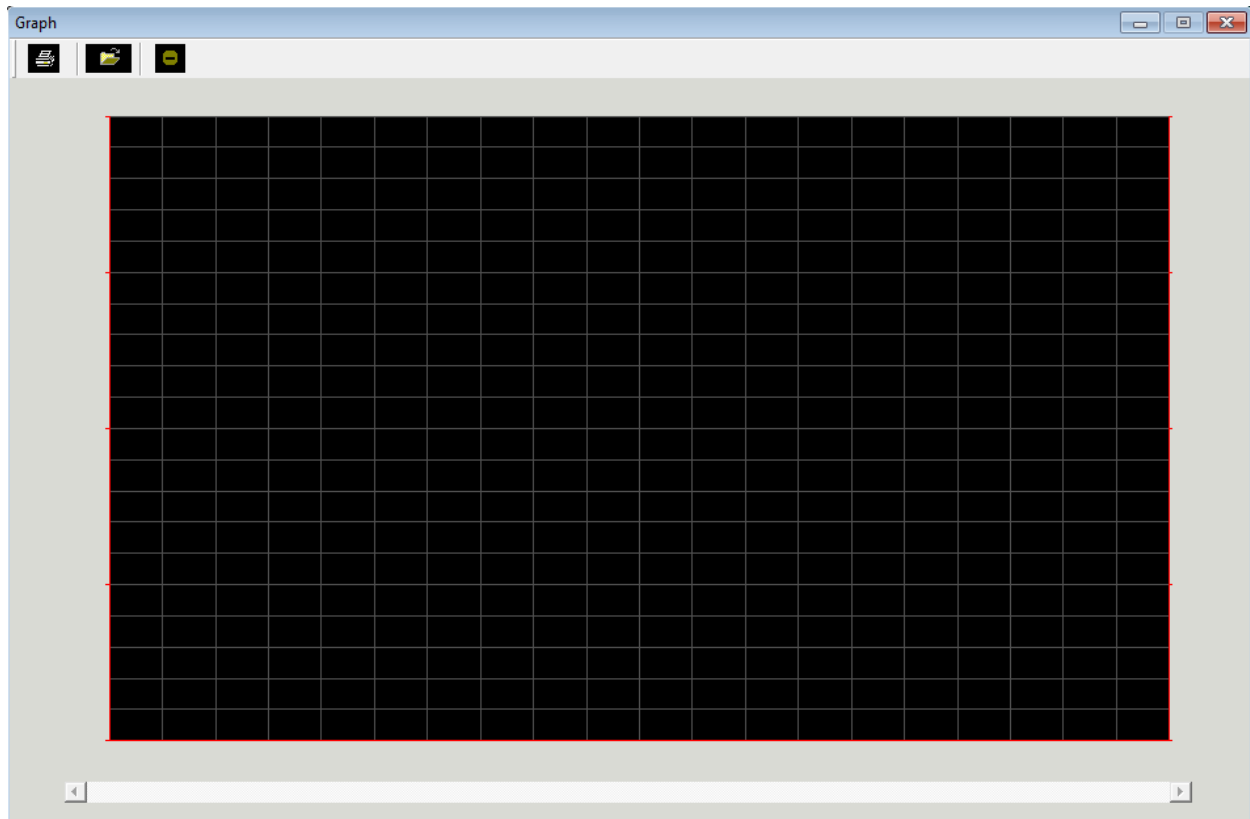
2. The default file name is the date and time. Name the file and save it with the default extension. The data will be saved with the “.AsmDat”. extension to be reopened in the Manometer program as a graph and also as a “.TXT” file to be opened in another word processing or spreadsheet program.

3. You can also save the file in an Excel format by clicking on

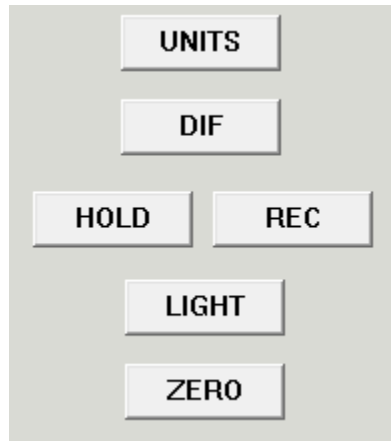
Export Excel

Opening a Saved Data file

1. Click the  or the  icon to open a saved graph file (*.AsmDat).
2. Click the  icon to select the file name to open.
The opened graph supports Printing and Zooming.



Software Control Buttons



Units	Change the Units of measure on the meter.
DIF	Set the meter operation to measure the pressure difference between port P1 and P2.
HOLD	The measurement on the display will be held.
REC (UNREC)	REC - Record the Max, Min, and Average values during a Real Time recording. UNREC - Stop recording the Max, Min and Average data.
LIGHT	Turn on the meter Backlight
ZERO	Zero the meter

Note: pressing the buttons on the meter will perform the same operations

Frequently Asked Questions

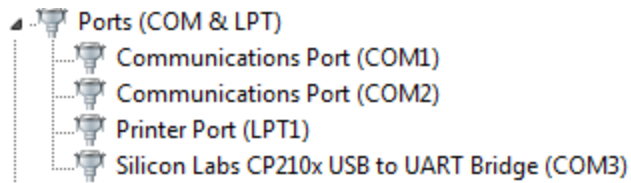
1. I connected the manometer to the PC port and turned on the meter power, I tried all serial ports, and the software always shows "— — — —".

Answer: It could be that all serial ports are occupied by other applications.

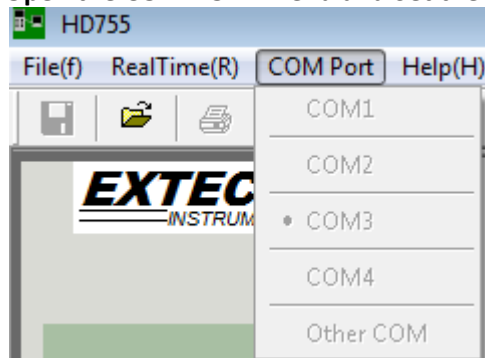
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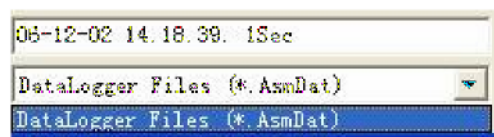
Windows Device Manager



Open the COM PORT menu and Set the COM port



2. Why is there only (*.AsmDat) file type selection in the save dialog, and no (*.TXT) type?



Answer: The text file is created automatically. When you click SAVE you will get both the text file (.txt) and the binary file (.AsmDat)

3. How many data points can I record in Real Time?

Answer: The maximum number of Real Time data points you can record is 17,278.

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