OPERATING MANUAL
FOR

SD MEMORY CARD
PRESSURE HISTORY DATA
PC SOFTWARE

METRON, INC.
1505 West Third Avenue
Denver, Colorado 80223
www.metroninc.com

Telephone: (303) 592-1903 Fax: (303) 534-1947

METRON ELEDYNE LIMITED
18 Autumn Park, Dysart Road, Grantham, LINCS. NG31 7DD. United Kingdom
Telephone: +44 (0) 1476 516120 FAX: +44 (0) 1476 516121 email: info@metroneledyne.co.uk
www.metroneledyne.co.uk

OPERATING MANUAL FOR SD MEMORY CARD VIEWER SOFTWARE

1. Overview

The purpose of this manual is to explain how to operate the free Pressure History Data PC Software from Metron INC. / Metron Eledyne Ltd.

The principle purpose of the software is to allow easy viewing of the water pressure logs and event logs, taken from a FD4 / FD4e diesel engine controller, or a MP electric motor controller. All of the data logs are stored on the controllers internally mounted SD memory card, which can be removed and inserted in to a PC computer.

It is recommended that the contents of the SD memory card are firstly copied in to a sub directory on the PC, and that the SD memory is restored back into the fire pump controller as soon as possible. This prevents the possibility of corrupting the SD memory cards data, and enables the fire pump controller to carry on logging information while this software is being used.

When the SD memory card is firstly inserted in the PC, open the SD memory card folder and use the edit select all feature, then select copy. You could then create a new folder on your desk top by clicking the right hand mouse button on the desk top and by selecting new and folder and by typing a folder name. Double click on the new folder, then press the right hand button and select paste. All of the SD memory cards contents will be copied on to your desktop into the new folder. You can then replace the SD memory card back into the fire pump controller.

A note on SD memory contents:

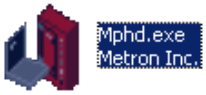
The controller stores the water pressure in a file called ‘PRESSxx.TXT’, where xx is the day of the date. For example, the water pressure for the 23rd day of a month will be in a file called ‘PRESS23.TXT’. The controller will over write this file on the 23rd day of the following month. This means that the SD memory card can store one months worth of water pressure logs.

These files are all in the text file format, indicated by the PC extension TXT. If you double click on an individual file from a file manager screen, then the file will be opened into NOTEPAD where it can be edited, viewed and printed.

The SD memory card also contains a file called ‘EVENTS.TXT’. This file contains all of the events listed in chronological order.

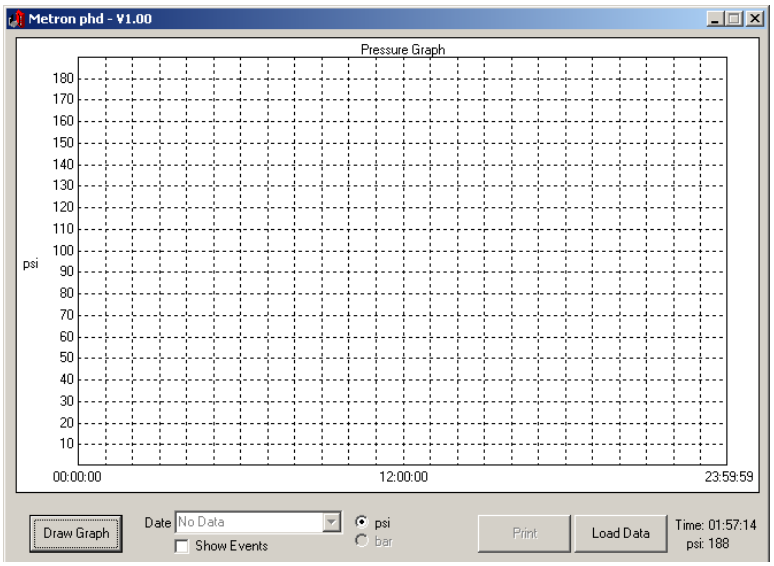
2. Running the Software

Once the software has been successfully downloaded, double click on the resulting icon to launch the software:



3. Operation

With the software running, the initial screen will look like the following:

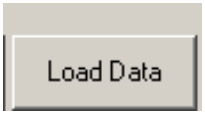


The screen shows the water pressure graph, shown with time across the ‘x’ axis and pressure on the ‘y’ axis. The various controls of the software are along the bottom.

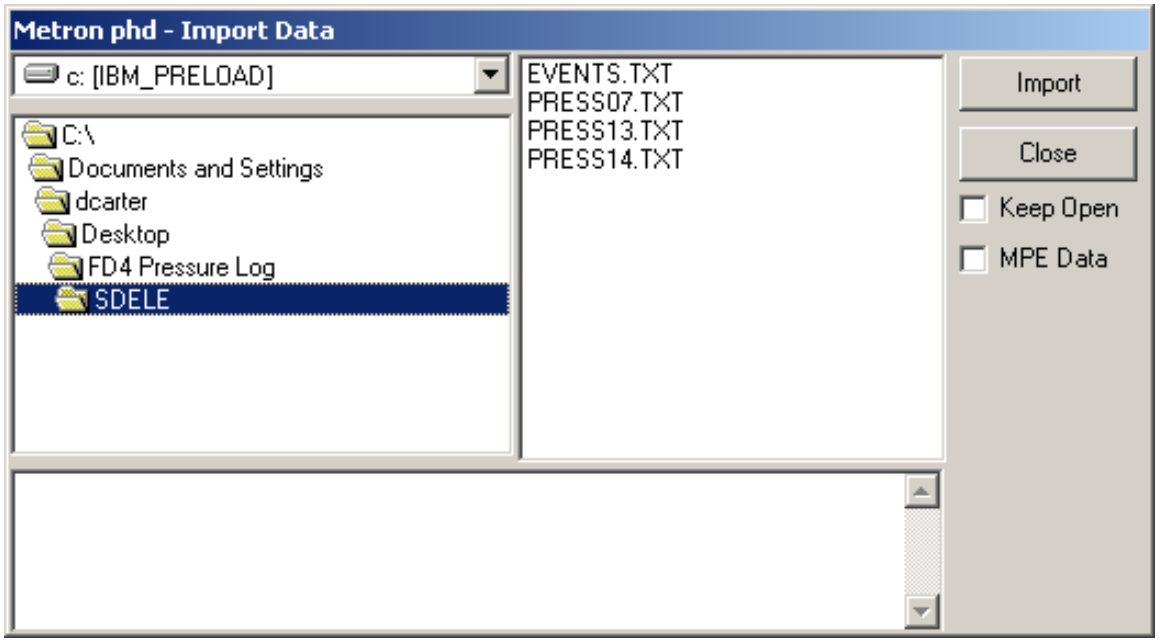
Loading the Data from the SD Memory Card

We recommend that the data on the SD memory card is firstly copied on to the PC running this software.

When the contents of the memory card has been successfully copied onto the PC, click on :



The following example screen should then appear:



If the SD memory card data was from a MP electric motor controller the ‘MPE Data’ check box must be checked.

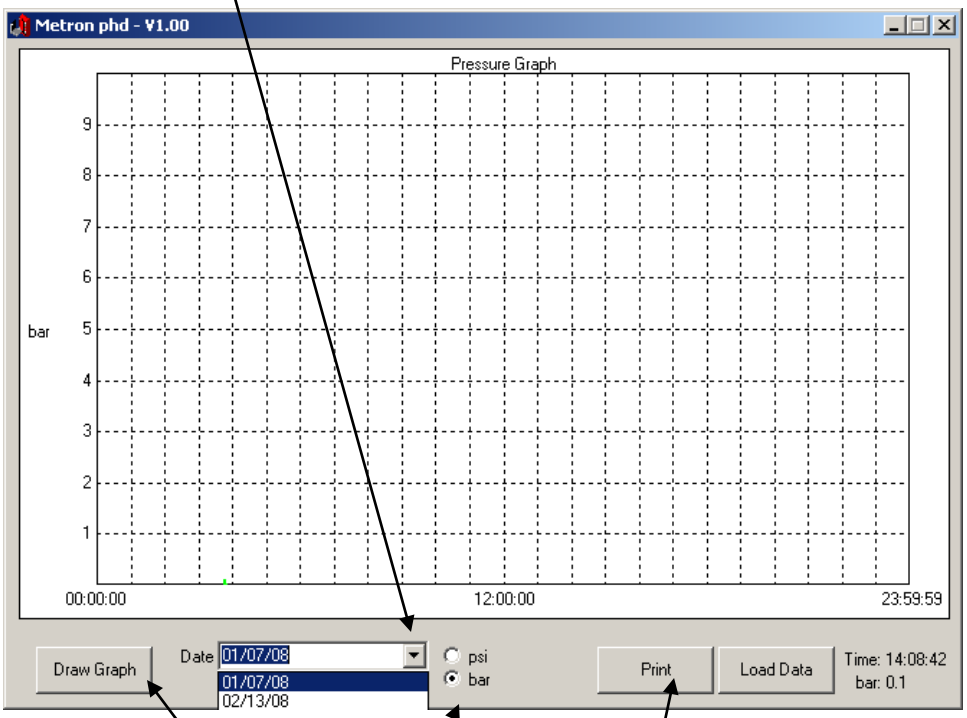
By using the file manager style controls on the left hand side of the window, navigate the software to where the SD memory card data was copied to. Double click on required sub-directory, and files should appear on the right hand side, with a prefix of ‘PRESSxx.TXT’ as shown above. Then click:

After a brief period, depending on how many data files are available, the screen will revert back to the opening graphic page. If ‘Keep Open’ has been checked the screen will not revert to the opening graphic page. This is so that any errors encountered during the importing can be viewed.

Note: The example above shows the data being in a directory off the desktop.

Using the Software

Once the events and water pressure files have been loaded, we can then use the software to analyze the data. This can be done by firstly using the date pull down menu to select the desired day's worth of logs, as shown:



Secondly click on the draw graph button:

A graph will then appear in the window.

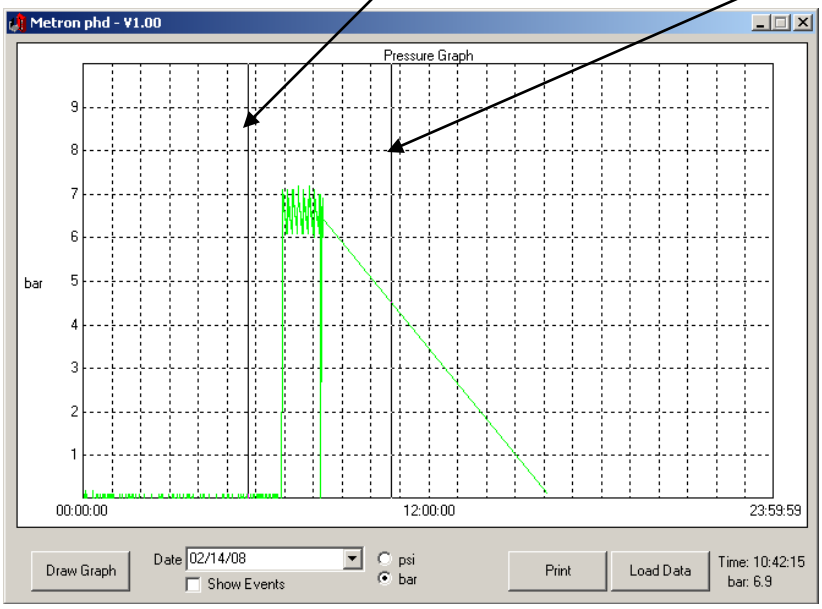
This setting for PSI or BAR must be selected to correspond with the configuration of the control panel. The program should automatically select PSI or BAR depending the on data in the log file.

The graph can be now printed if desired by clicking on the PRINT button:

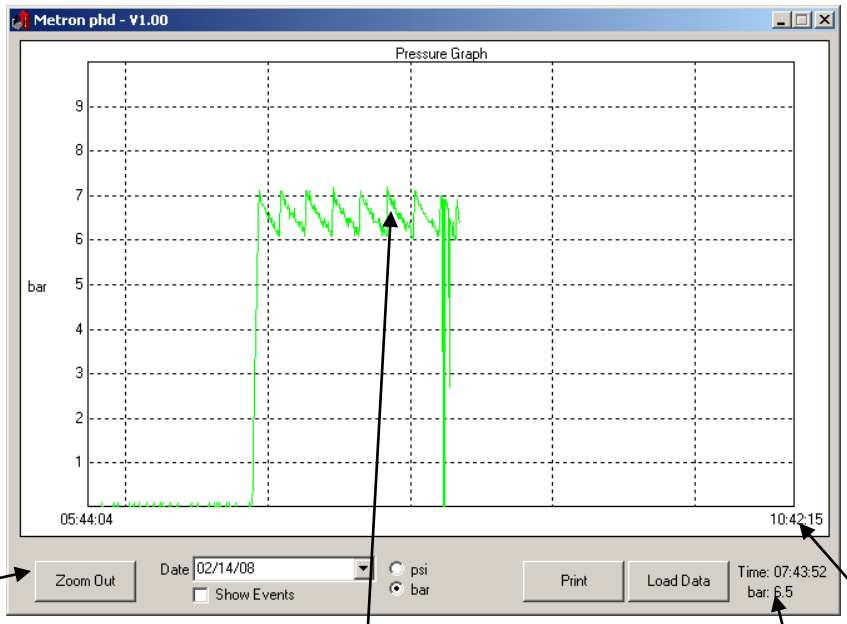
ZOOM Feature:

The software enables the user to zoom in on any period by using the mouse left hand button. Position the cursor at the start of the area to be enlarged, then press and hold the left hand mouse button while dragging it to the right, and release the button once the area has been highlighted. The software will then respond by enlarging the selected area.

Highlighting the area to zoom. Click here, drag move and release here:



The enlarged version will now show:



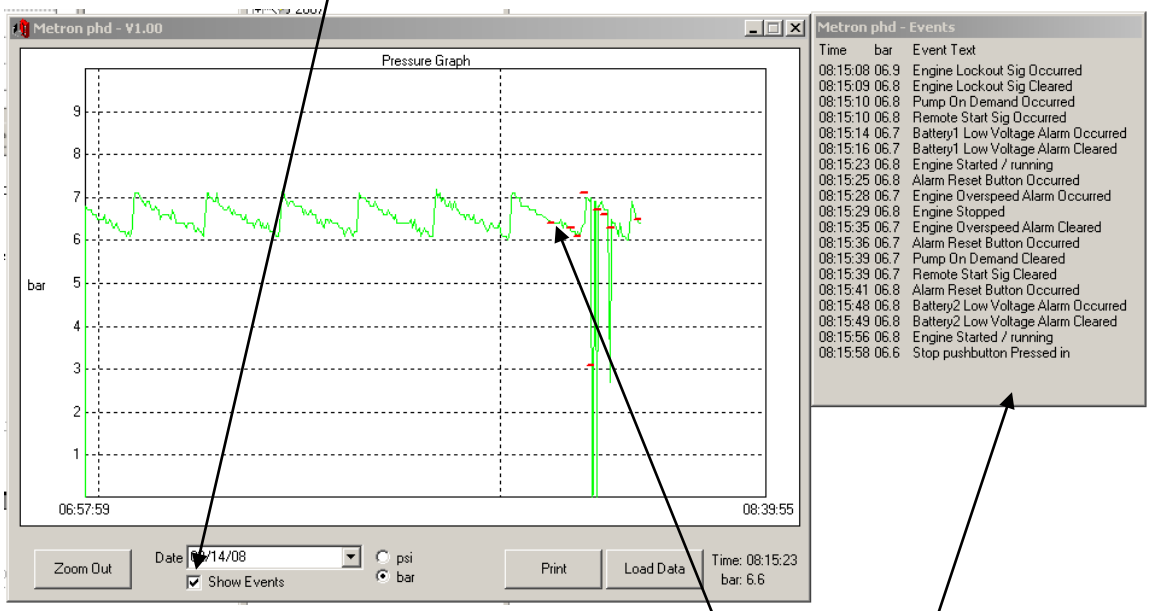
By moving the cursor along the green line, you can read off the exact logged water pressure and the time in the bottom right corner of the screen.

Notice also that the X axis now shows the time range being displayed.

Return to the normal 24 hour view by
Clicking on the Zoom out button.

Analyzing the Events

The event log can be viewed at the same time as the water pressure, by clicking on the 'Show Events' tick box



Once this has been clicked, a second window opens along side the existing graphical display.

There will be no content in the event window, until the cursor has been moved over a red line on the graph.

These small red lines that are superimposed on the green graph line, and indicate that the controller logged at least one event at this same time. The events are shown when the mouse pointer is placed over the red line, in the window on the right hand side.