

1. Introduction

The first part of this manual provides detail installation steps of USB driver. The second part shows usage of application software.

DPA -3051 connects to PC through USB 2.0 standard. It is required to install USB driver into your Windows PC. It is a USB to UART bridge driver that maps USB into COM port. Therefore it will add additional COM port into your PC after installing USB driver and connecting DPA to PC.

The DPM application software can be directly run on CDROM without any installation or copy all the files in CDROM into a folder on your PC to run it.

System requirement

Applicable Windows OS version	: Windows XP/ Windows 7/ Windows Vista
Memory	: at least 512MB
Hard disk space	: at least 100MB free space
Connection	: available USB 2.0 port

2. USB Driver Installation

This USB driver is supported for Microsoft Windows 2000/ XP/ Vista and 7. It maps USB port into COM port then communicates to device using standard UART protocol. The installation program is included in CDROM.

Installation steps;

- Go to folder "USB CP210x Driver V6.5 for Win_XP_S2K3_Vista_7" in CDROM.
- Run "CP210xVCPIInstaller" to install USB driver.
- Just use default installation location and click "Install" button to start installation.



- Click "OK" button after installation completed successfully. No need to restart the system.



3. Using DPM application software

The application software is used to retrieve data from DPM-3232 and DPM-3221. It displays the data in graphical view. It allows you to zoom in a specific data range for detail analysis. The retrieved data can be saved into CSV file. This saved file can be loaded into this application software for review.

1. Retrieving data from DPM.
2. Display data in graphical view
3. Zoom in selected range of data.
4. Saving data in to CSV format file.
5. Print out to printer.

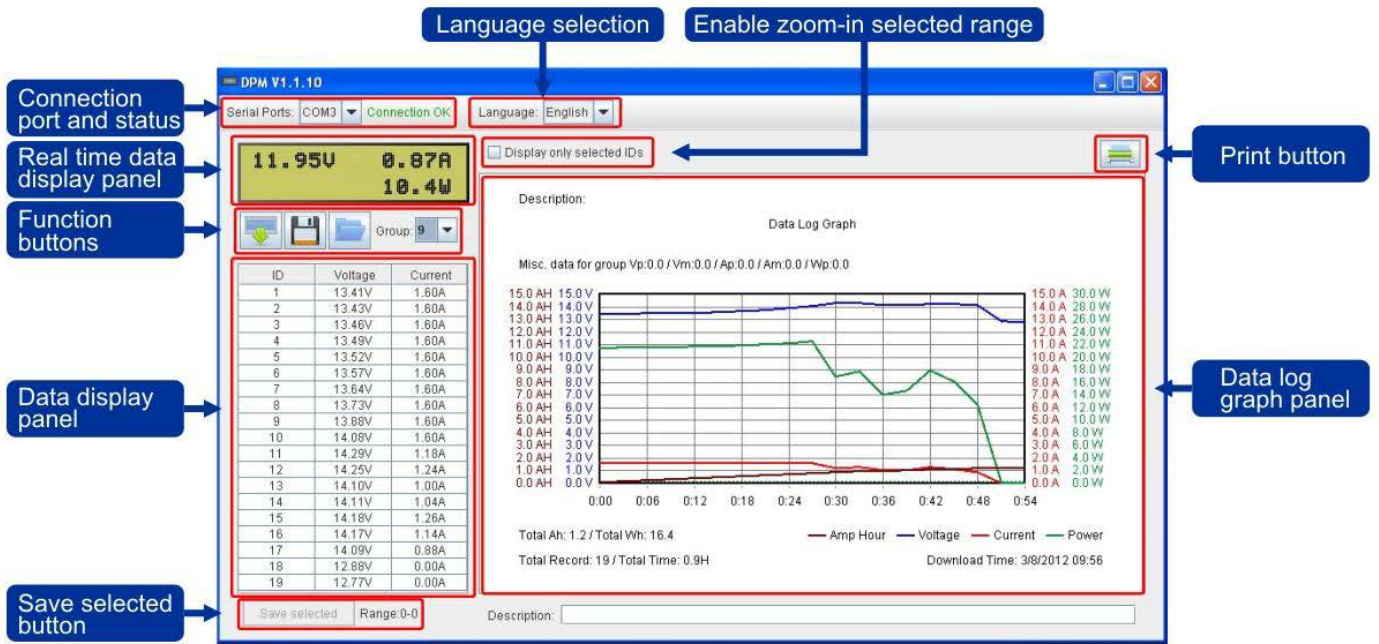
The software can be directly run from CDROM without installation. If you need to run it locally in PC local hard disk, just copy DPM folder from CDROM to PC local hard disk. DPA and DPM should be connected correctly to PC before starting DPM application software.

a. Start DPM application software;

- Run <CDROM or local hard disk path> \dpm\dpm.bat. The following main screen coming up.



b. Identify components on main screen;



c. Select serial ports connecting to DPA and interface language;

- At the top of main screen, there are serial ports selection and interface language selection menu. Whenever the serial port selected is right connecting to DPA and DPM, connection status show "Connection OK".



d. Display real time data of connected DPM;

- The real time data display panel is located below Serial Ports selection menu. It is used to show real time Voltage, Current and Power of connected DPM.



e. Data retrieving, saving and loading;

The software can be used to retrieving data from DPM, saving into CSV file and loading data from CSV file.

Retrieving data

- Click following button to retrieve data from DPM.



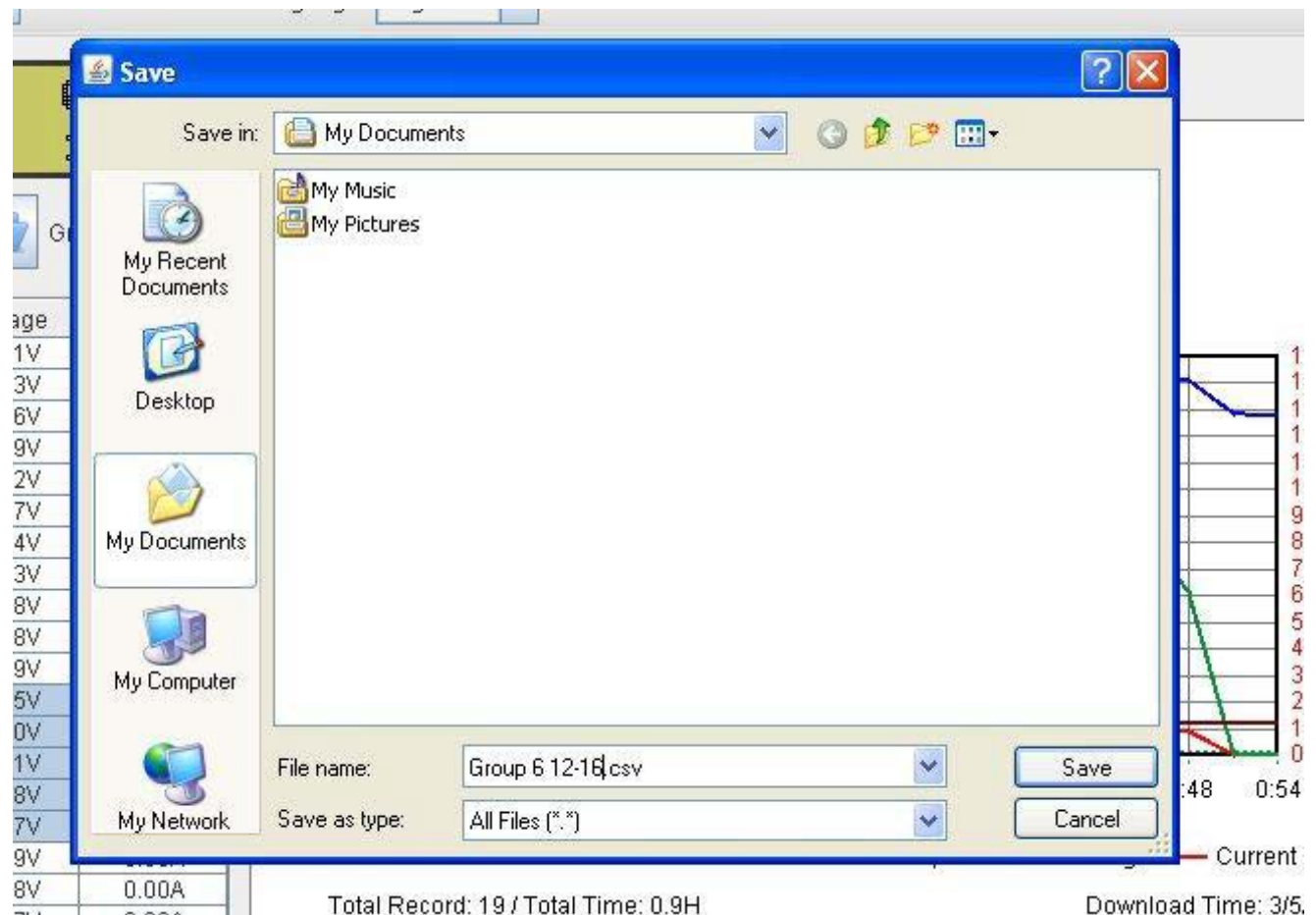
It is maximum 20 groups of data can be saved in DPM. The group 1 is the newest data group.

Saving data

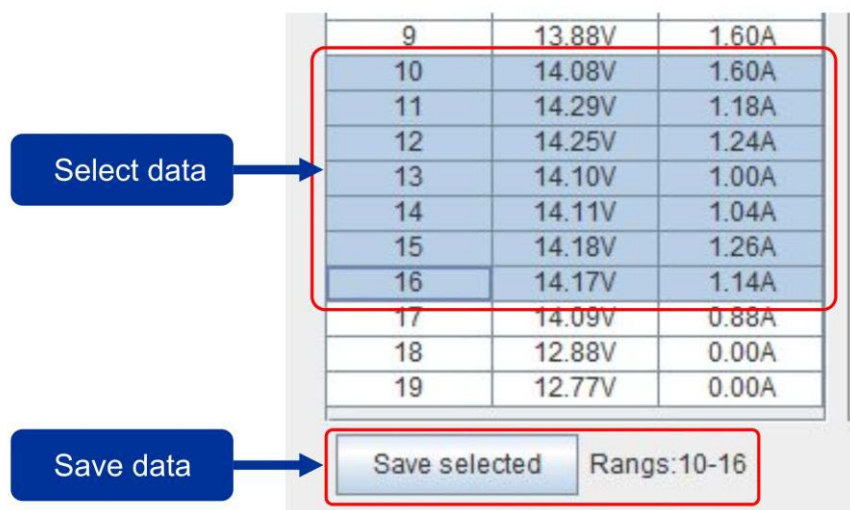
- Click following button to save data to CSV file.



- Select directory and input your file name. Then click "Save" button to save file.



- In addition to save all data, you can save only the selected data.
- Use mouse to select data in the group you would like to save.
- Click on the "Save selected" button to save the selected data.



Loading data from csv file

- Click following button to load data from csv file



f. Zoom in select range of data

- To zoom in selected data, use mouse to select range.
- Click "Display only selected IDs to zoom in the selected range."



g. Print Data log graph to printer

- Click on the following button to print graph to printer.

