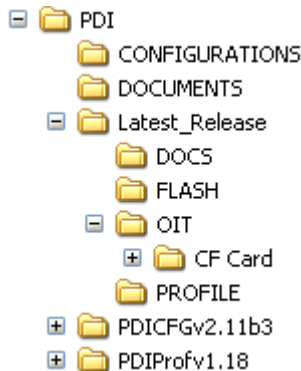# Phase Dynamics software installation and operation

All the files necessary for this installation are contained on the folder "Phase Dynamics" of the distribution CD-ROM. The CD folder tree looks like this;

Copy the folder PDI and all its subfolders to your hard drive C:\

Profiler Installation

Open the subfolder PDIProf1.18 and execute the application "setup.exe"
The application will create the folder "C:\PDI\PDI_PROF" and it will install the software there.
When the installation is finished, you will be asked to reset the PC. This is NOT necessary.

EEASA Installation

Open the folder (PDICFGv2.11b3) and execute the application "setup.exe".
The application will create the folder C:\PDI\EEASA and it will install the software there.
After the installation is finished, create a shortcut to "C:\PDI\EEASA\EEASA.EXE" in your desktop.
Copy the file "PDICFG.INI" that is on the "PDI" folder into "C:\PDI\EEASA". If the file already existed, overwrite it.

Configuring the communication port

Execute the short cut you made in the previous section to EEASA.
On the top left corner, click Setup.
Click address and make sure you have the proper Slave Address for the analyzer you are trying to configure (Normally Slave Address 1)
Click OK.
Click Baud rate.
Make sure the right Baud Rate is selected (normally 9600).

Click Ok.
Click Parity.
Make sure the right parity is selected. It has to match the parity set on the analyzer (Usually NONE).
Click OK.
Click Comm Port.
Make sure port indicated is the one where your RS485 adapter is connected.
Click OK.
Exit EEASA to apply the communication port changes.
The configuration of processor board is composed by 2 steps: Uploading the application and uploading the configuration. Before uploading a new application, make a copy of the old configuration (unless we are sending you a new one) by downloading the current configuration to your computer.

Downloading the configuration to the computer

Before downloading the configuration from the analyzer to the computer a skeleton is needed. This skeleton is just a list of MODBUS registers that are going to be polled from the analyzer.
To proceed create a folder with the same name of the analyzer SN. For example "C:\PDI\CONFIGURATIONS\FC0441"
Copy the skeleton file "P000000.csv" into the previous folder and rename it with the serial number of the analyzer. In this case rename from P00000.csv to P000441.csv. The skeleton file is located under C:\PDI\Latest_Release\PROFILE.
Connect the RS485 lines to COM1 terminals 1 (A) and 2 (B) of the EEA chassis.
Execute the shortcut to EEASA.
After the communication is established, click UNLOCK.
Enter the password 1343.
Click Module to Profile CSV ("MODULE >> PROFILE.csv").
Browse for the proper configuration file PXXXXX.csv file. (In this case it is in "C:\PDI\CONFIGURATIONS\FC0441".)
Select the configuration file. (In this case "P000441.csv")
Click OK.
A pop up screen with the message NO ERRORS will show up.
When the upload is finished, the communication window will close
If errors occur, check the communication settings.

Uploading the application to the analyzer

The latest release is located under C:/PDI/Latest_Release/FLASH.
Execute the short cut to EEASA.
After the communication is established, click UNLOCK.
Enter the password 1343.
Click FLASH Utility.
A new screen will show up.

Click Load.
A pop up screen with the message NO ERRORS will show up.
When the upload is finished, a screen saying Download Complete will show up.
Click OK.
After a couple of seconds, another window will prompt with the message Configuration Erased.
Click OK.
The upload is finished.
You must now upload a new configuration into the analyzer as described in the next section.
Note:
In case you have problems with Profiler uploading the new software, change the line in PDICFG.INI that says "high_baud_rate=115200" to "high_baud_rate=9600" and try again.
After the application is uploaded, the analyzer will reset automatically. The next time the application EEASA is executed, the new serial number for the analyzer will be requested (It was lost after uploading the configuration).

Upload the configuration from the computer to the Analyzer

Connect the RS485 lines to COM1 terminals 1 (A) and 2 (B) on the EEA Chassis.
Execute the shortcut to EEESA.
After the communication is established, click UNLOCK.
Enter the password 1343.
Click Profile CSV to Module. ("PROFILE.csv >> MODULE")
Browse for the proper configuration file PXXXXX.csv file. (In this case it is in "C:\PDI\CONF_FILES\FC0441\".)
Select the configuration file. (In this case P000441.csv)
Click OK.
A pop up screen with the message NO ERRORS will show up.
When the upload is finished, the communication window will close
The upload is finished

Receiving new applications or Configuration Files from Phase Dynamics

In case you receive a new application from Phase Dynamics, you will receive a folder like this:
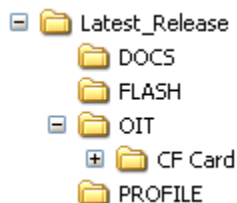

Just delete you old "Latest_Release" folder and subfolders and replace it with the new one. You are now ready to upload it to your analyzers.

If we send you a new configuration file like P000441.CSV, just create a folder called FC00441 under C:/PDI/CONFIGURATIONS and copy the configuration file into it. Then execute EEASA and uploaded to your analyzer.

SCREENS

The screens and the application are compatible. A new screen might will work with an old application but a new application will not work with an old screen. To upload a new screen software into your touch-screen, obtain an empty Compact Flash card and copy the folder PDI and all the subfolders corresponding to your model. For example for CCM, copy the folder C:\Latest_Release\OIT\CF Card\ OIT CCM 311\PDI and all the subfolders under it.
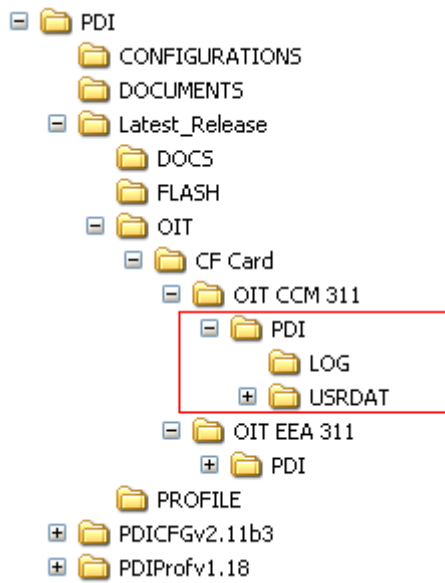
After you copy the screen software to your Compact Flash card, your card folder tree should look like this:
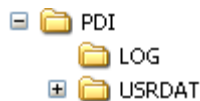
Now you ready to upload the new screen software into your touch-screen.

Copying Screen Data from CF Card to OIT

1. Access the rear part of the touch screen
2. If there is no compact flash inserted in touch screen, go to step 3. If there is a compact flash logging data, press the red button on the right. Wait until the green LED turns off. Sometimes it flashes a couple of times before turning off. Press the black button to eject the logging compact flash.
3. Insert Compact Flash card containing the project.
4. Press the top right and top left corners of the display.
5. Press Initial settings.
6. Enter the password: 1343
7. Go to: Initial Setting\CF Card\CF to HG Card. Follow the directions on the touch screen. When the new application has been loaded, press "RUN".
8. Press the red button on the right. Wait until the green LED turns off. Press the black button to eject the compact flash.
9. Insert the original compact flash that was removed in the step 2 (if any)

Copying Screen Data from OIT to CF Card

1. If there is no Compact Flash card logging data, go to step 2. If there is a Compact Flash card inserted logging data, press the red button on the back of the screen and wait until the green LED next to the card slot turns off.
2. Insert formatted Compact Flash card.
3. Press the top right and top left corners of the display.
4. Enter the password: 1343
5. Go to: Initial Setting\CF Card\HG to CF Card
6. Select the project and select OK to copy to CF card
7. When complete, press the red button and wait for the green LED to turn off. The Compact Flash card can now be ejected.