

## Computer Setup

1. Complete the Windows registration procedure w/ Activation Code
2. Record CommPort settings for setting up the Crystal Monitor in a later step.
  - (a) Go to 'Device Manager', then choose 'Ports', and look at 'Communications Port'
  - (b) There should be a listing of one or more comm ports with a name ComX where X is the number of the port to record.
3. Change Power Settings – 4 hr Monitor, Never Sleep
4. Insert Installation thumb drive and go to the Drivers folder.
5. Install Google Chrome – ChromeStandaloneSetup.exe
6. Install Adobe Reader – AdbrRdr11010\_en\_US.exe
7. Install LabJack drivers – LabJack-2014-10-14.exe
8. From the Windows Start menu find the Labjack folder and Open LJ control panel
  - (a) Plug in one LabJack at a time starting with the Pump Stack, then Encoder, and then General I/O.
  - (b) Click on the 'Find Devices' Button
  - (c) Change the Local ID to fit its function: General I/O=1, Pump Stack=2, and Encoder=3
  - (d) Press the 'Write Values' button, Then the 'Yes' and 'Ok' buttons when prompted
  - (e) Repeat with the other LabJacks
9. Go back to the Installation Thumb drive. If you have cryo based system go to the Install/TrovatoEvap-C-Install/Volume folder and run the Setup.exe program. If you have turbo based system go to the Install/TrovatoEvap-T-Install/Volume folder and run the Setup.exe program.
10. The System Config Utility automatically open when the programs have been installed
  - (a) Initialize the Database:
    - i. Press 'MachDB Browser' button
    - ii. Under "Operation", press 'Init' Button
    - iii. Press 'Do All'
  - (b) Press 'Config' button and enter information for:
    - i. Set the number of power supplies and power limits for each in the MaxPwrArray, then press the Create button to create the supplies.

- ii. Set the number of sources and the tooling and press the Create button.
  - iii. Set the number of Crystal monitors and press the Create button.
  - iv. Press the Create button to create 2 plotters.
  - v. Press Create to Create the Main Panel.
  - vi. Select the number of fixture which will be included with the machine. Press the Create button to launch the Init Fixture control button to set the parameters need to define the fixture. Pressing the SAVE button will save the fixture. This process will be repeated for each of the fixtures being defined.
  - vii. Press the DONE button to close the ConfigMachDB dialog.
- (c) Import Settings and Materials
- i. Verify check-marks in the boxes labeled FC Set, Material, PS Set, and Plot Set.
  - ii. Press 'Import' Button
- (d) Set the Operation menu bar to Close and Press the DO ALL button to save the changes to the database.
- (e) Press the STOP button on the Machine DB Browser window to close the browser.
- (f) Configure CommPort with comm port number gathered earlier.
- i. Press 'Xtal Mon' Button located on the left side of the main window
  - ii. Press the EDIT button to enter edit mode.
  - iii. Enter the CommPort number gathered earlier
  - iv. Press SAVE to save the changes and then press DONE to close the dialog.
- (g) Map Sources
- i. Press 'Source' Button to launch the source information dialog.
  - ii. Widen the window by dragging the border on the right-hand side of the window.
  - iii. In the drop down menu, select Src 1 and press 'Edit' button
  - iv. Press the Select button under SelPS to map the source to the proper power supply.
  - v. Press 'Select' button near QCM Name edit box to map the source to the proper QCM.
  - vi. To make testing easier map some of the sources from each power supply to a Material by pressing the Select button next to the Active Material edit box and choose a material. Each material can only be mapped to one source.

- (h) Configure Power Supplies (only required if the Max power was not set at configuration time. )
  - i. Press the PWR SUP button on the left side of the main window to launch the Power Supply Info dialog.
  - ii. Press EDIT to enter edit mode.
  - iii. Enter the maximum current for the power supply in the Max Power edit box. (The maximum power for a supply can be found on the front panel of the power supply. Find what looks like “GEN10-330” the -330 number is maximum current of the power supply.)
  - iv. Press SAVE to save any changes. Repeat this procedure for all of the supplies by selecting another supply in the Power Supply dropdown.
  - v. Press DONE when all supplies have been edited to close the dialog.
- (i) Press the SAVE button on the left-hand side of the main window to save all of the changes to the database.
- (j) Click on the File menu and select Exit to close the SysConfig program.

#### 11. Install RGA Software

- (a) Copy the “Dycor 2000” Folder into the “Programs” of the C-Drive
- (b) Follow the path “C:\Programs\Dycor 2000\Ametek #10211039”
- (c) Run the application named “setup”, close when finished
- (d) Change LAN Properties For RGA
  - i. In the Control Panel, Choose “Network and Sharing Center”
  - ii. On the left-hand side of the screen, choose “Change adapter settings”
  - iii. Double-click “Local Area Connection”
  - iv. In the pop-up window, press 'Properties' button
  - v. Uncheck the box labeled “Internet Protocol Version 6 (TCP/IPv6)”
  - vi. Highlight “Internet Protocol Version 4 (TCP/IPv4)” and press 'Properties' button.
  - vii. Select “Use the following IP address” and type in “192.168.000.250”
  - viii. Placing the cursor in the boxes below it should auto-fill them

#### 12. Launch the TrovatoEvap program and begin testing I/O.