

Cryomech Control Panel Computer Interface Package

Thank you for purchasing a Cryomech CP2800 or CP1000 series compressor. We have included some helpful documents and programs to help you use the control panel on these compressors to your full advantage. The Cryomech CP2800/CP1000 series control panels have many capabilities that can be accessed, used, modified and controlled directly by the user. The following document explains how to use the software that we have included. If you have any questions please feel free to contact us.

LabView application installer:

1. Run the program “setup_cmapps_public.rar”
 - a. This program will automatically install a LabView runtime engine as well as several LabView based programs. These programs allow you to communicate with and control the CP2800/1000 with almost any computer.
 - b. The computer that is selected for these applications must be operating Windows 2000 or newer (XP, Vista etc.) the programs are not compatible with Windows 98.
2. When the program has completed installation you will find a new folder under your Start menu called Cryomech. Under this folder there are several LabView programs:
 - a. **Dictionary iec.vi:** this program allows you to test the command prompts in the panel. This program allows you to easily read and write dictionary variables.
 - b. **Diode Temp Logger.vi:** This allows the user monitor and store (log) the diode temperatures (only compressors with the optional diode panel)
 - c. **Load Diode Curve.vi:** This program is used to download diode calibration curves to the panel (diode panels only)
 - d. **Read Logs.vi:** This program allows the user to view and download all of the error and event logs that are stored in the compressor

- e. **Show Diode Temps.vi:** Displays the diode temperatures (diode panels only)
- f. **Virtual Panel.vi:** Allows the user to monitor and control the panel with a computer
- g. **Virtual Panel with Logging:** similar to virtual panel however the user can save (log) all of the parameters that the panel monitors (pressure, temperature, motor current etc.)

Connecting a computer to the panel:

1. In order to connect a computer (once the programs are installed) to the control panel an RS232 (female to female) null modem cable must be used.
2. The baud rate should be set to 115,200