

1. CONNECTIONS

All rear ports on the PPC2 are 1/8" NPTF. Connect as follows:

- Supply Port (7)** Connect a supply pressure of the actual PPC2 range plus 10 %.
- Test High (8)** Connect the device under test. If you wish to use the PPC2 with no test, make sure the is port is plugged.
- Reference Port (6)** Either connect the vacuum supply or pump (if you will be working below atmosphere) or leave it open. The reference port should NEVER be shut off.
- Test Low (4)** No connections
- Vent (5)** No connections

2. CHECK FOR LEAKS

Check for leaks after hooking up all the plumbing. Turn on the PPC2 and select 1/Manual. Then simultaneously press the decimal point key and the right arrow to quickly add pressure to the system (the decimal point with the left arrow drops the pressure quickly). Stop when the display shows approximately 1/2 scale of the PPC2. Wait 15 seconds for pressure to stabilize and then monitor the value in the lower right corner of the display next to the letter "C" (rate of change in pressure units per second). That number should diminish quickly then level out followed by random up and down variance. If the pressure continues to drop indefinitely, you have a leak and you need to test all connections to eliminate any leaks.

3. SET PRESSURE

After you have a leak free system, use the arrow keys to set pressure to approximately midpoint of the PPC2's range. You can also adjust pressure using the right/left arrows without the decimal point for slower changes, or, the up/down arrow keys below the display for pulsing. Perform a configuration when the desired pressure is reached. This allows the PPC2 to become familiar with the volume that it will be controlling into.

4. CONFIGURE

If you are using a vacuum source ensure that it is turned on during the configuration. To configure, ESC[ape] back to the Main Menu and choose 4/Special, 3/Config, 1/Config PPC. The unit will take a few minutes to perform its configuration. Once you configure a particular volume, record the parameters obtained by selecting 3/Config, 2/Edit Config to retain them instead of configuring again.

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- *A "knocking" sound is normal solenoid valve operation.*
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5. VACUUM

While working with a vacuum pump ensure it is ON and then set the vacuum flag. To do so, select 4/Special from the Main Menu followed by 7/Internal, 8/Vacuum, 1/Yes. When working without the vacuum pump, turn the flag OFF by 7/Internal, 8/Vacuum, 2/No.

6. CALIBRATIONS - MANUAL OR AUTOMATIC

After Config the PPC2 is ready to operate. First establish the settings (Target Limit, Hold Limit and Stability) from the Main Menu, 2/Settings. A good initial Target Limit might be 0.05 % F.S. with the Hold Limit at 0.1 % F.S. You may want to alter these later taking care to notice the effects on the system. Confirm each setting with ENTER.

When the settings are complete, return to the Main Menu to check the current control mode. Select 4/Special, 5/Mode to access Static or Dynamic Modes.

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- *Dynamic Mode automatically sets the Target Limit to 0. See the User's Manual for complete discussion of the differences and applications.*
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If you need to use units not currently available in Unit Settings, select 4/Special, 1/Units from the Main Menu. The next available location will display, hit ENTER to choose it. A prompt will ask if it is gauge or absolute followed by "SI" or "Other" (English). Choose the desired unit to add it to the Settings Menu.

Calibrations may be done either via setting each pressure manually to take the data point, or, to have the sequence set pressures automatically.

① MANUAL

Return to the Manual Menu, hit ENTER. The display will show "SetP". Type in the desired pressure. If you want to enable the Hold function, hit the hold button (button with two triangles on it) and ENTER.

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- *Hold is automatic in Dynamic Mode.*
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The pressure will increase/decrease until it is within the Target Limit setting. The valves then shut off and an asterisk "*" will appear in the upper left hand corner of the display when the Stability criteria is met. Read the test and the PPC2. Repeat the process for the next pressure. If operating in Dynamic Mode, the current pressure will display the target pressure and an asterisk will appear when the system is ready.

② AUTOMATIC

Choose 3/Sequences to select the desired type. To edit, 2/Edit and choose which of the 30 sequences you wish to change. The display will lead you through all variables related to the sequence, confirm each with ENTER. In Step Sequence, you will need the highest and lowest pressure with the number of steps in the calibration. The prompt regarding "return to start" is asking if you need to calibrate up and down. Answer "yes" to "vent after seq?" if the last sequential pressure is NOT 0 psig. "Next point on" allows a predetermined delay between calibration points vs. the operator pressing ENTER to continue.

The final prompt allows you to edit the settings which is recommended. You can also reverse the process by choosing the settings first and then editing the sequence. This would be helpful if you had to change the units because if you edit first and then change units, the values may change. When asked where to store the sequence, the PPC2 defaults to the location (address) originally chosen. Press ENTER to accept "Yes" which will overwrite any existing information. Choosing "No" gives the option of selecting another location while retaining the original unchanged. If you make a mistake, ESC[ape] out to begin Edit again.

To run the sequence ESC[ape] back to the 1/Run, 2/Edit, 3/Sets Menu to choose 1/Run. Select the desired sequence. The PPC2 will display the Upper Limit of the test plus 2 %. ENTER will confirm and start the test. If the first point is 0 and the next point is taken on ENTER, wait for the red vent light to flash first (approximately 5 seconds). At the end of the sequence (or to discontinue) press ESC[ape] followed by "Yes" to the abort prompt.

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