

MultiFlex PCI Series - Quick Start Guide

Step 1 – Open the MultiFlex PCI 1000 Series User Manual. Insert the Motion CD into the drive of a Windows PC and select:

Documents & Manuals\MultiFlex PCI Series\User Manual\

Refer to **Chapters 1 and 3** of the user manual for information to help you get started.



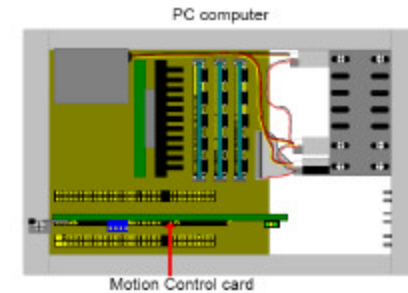
Step 2 – Install the Motion Control API and device driver. From the Motion CD, select:

Software & Drivers\MultiFlex PCI Series\

and install the Windows API and drivers applicable to your operating system. Refer to **Chapter 3** of the user manual.



Step 3 – Install the MultiFlex PCI Series controller. With the PC turned off, plug the controller into an available PCI slot in your computer. Power up the computer and allow Windows 'Plug and Play' to recognize the card and configure the system. For more details, refer to **Chapter 3** of the user manual.



Step 4 – (Windows Users) Install PMC's Motion Integrator program suite. From the Motion CD, select:

Software & Drivers\MultiFlex PCI Series\Windows Programs\Motion Integrator\Install Motion Integrator

Refer to **Chapter 4** of the user manual.



Step 5 – Connect the controller to the 'outside world'. For details, refer to **Chapter 5** (for wiring examples) and **Chapter 10** (pinouts, signal descriptions) of the user manual.

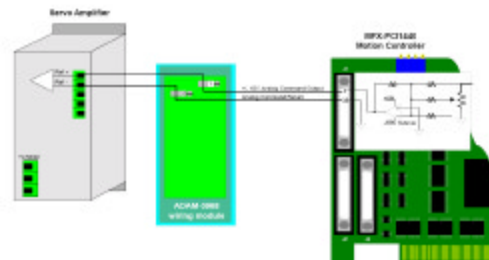


Figure 16: ~10V analog controlled servo wiring example (servo PC)

Step 6 – Verify the operation of the MultiFlex PCI controller and external devices.

Windows Users: Launch and run the 'Motion System Setup' component of the Motion Integrator suite:

Start>Programs\Motion Control\Motion Integrator\Motion System Setup

Linux Users: Skip steps 7-9 and instead use the sample programs included with the Motion Control API to move and test your motors.

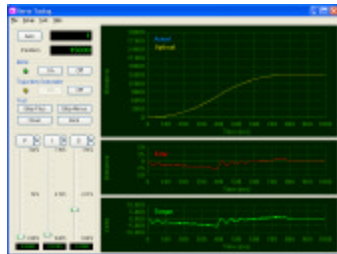
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Step 7 – Tune the axes. (Closed-loop systems only). Launch the 'Servo Tuning' component of Motion Integrator:

Start->Programs\Motion Control\Motion Integrator\Servo Tuning

For details, refer to the Servo Tuning online help, and **Chapters 2 & 6** of the user manual.



Step 8 – Move the axes. From the Start menu, launch the 'Motor Mover' component of Motion Integrator:

Start->Programs\Motion Control\Motion Integrator\Motor Mover

Execute motion on one or more axes. For details refer to **Chapters 4 & 6** of the user manual



Step 9 – Configure and test general purpose I/O. Launch the 'Digital Configuration' and 'Analog Configuration' components of Motion Integrator to set up and test the I/O.

Start->Programs\Motion Control\Motion Integrator\Digital Configuration (or Analog Configuration)

Refer to **Chapter 8** of the user manual.



Step 10 – Program the controller.

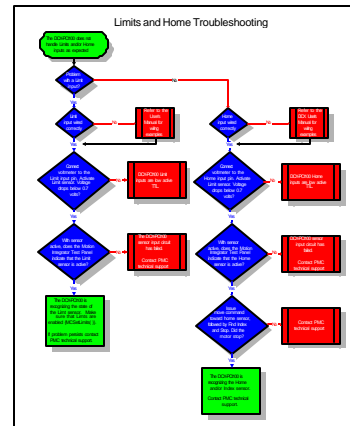
The Motion Control API includes comprehensive function libraries (DLL's) for C/C++/C#/.NET, VisualBasic, and Delphi programmers. An on-board multi-tasking macro command language is another programming option.

Please refer to **Chapter 6** of the user manual for more details.



Step 11 – Troubleshoot.

Helpful troubleshooting flowcharts can be found in the Appendix of the user manual.



Step 12 – Get product updates

and technical support. Download the latest software and firmware updates for your product from the Support section of PMC's web site at:

<http://www.pmccorp.com/support/support.php>

To get expert technical assistance directly from a PMC engineer please contact us anytime via email or telephone:

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