

G E T T I N G S T A R T E D



DCM-250

Deposition Control Monitor

IPN 611802 Rev. B



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Due to our continuing program of product improvements, specifications are subject to change without notice.

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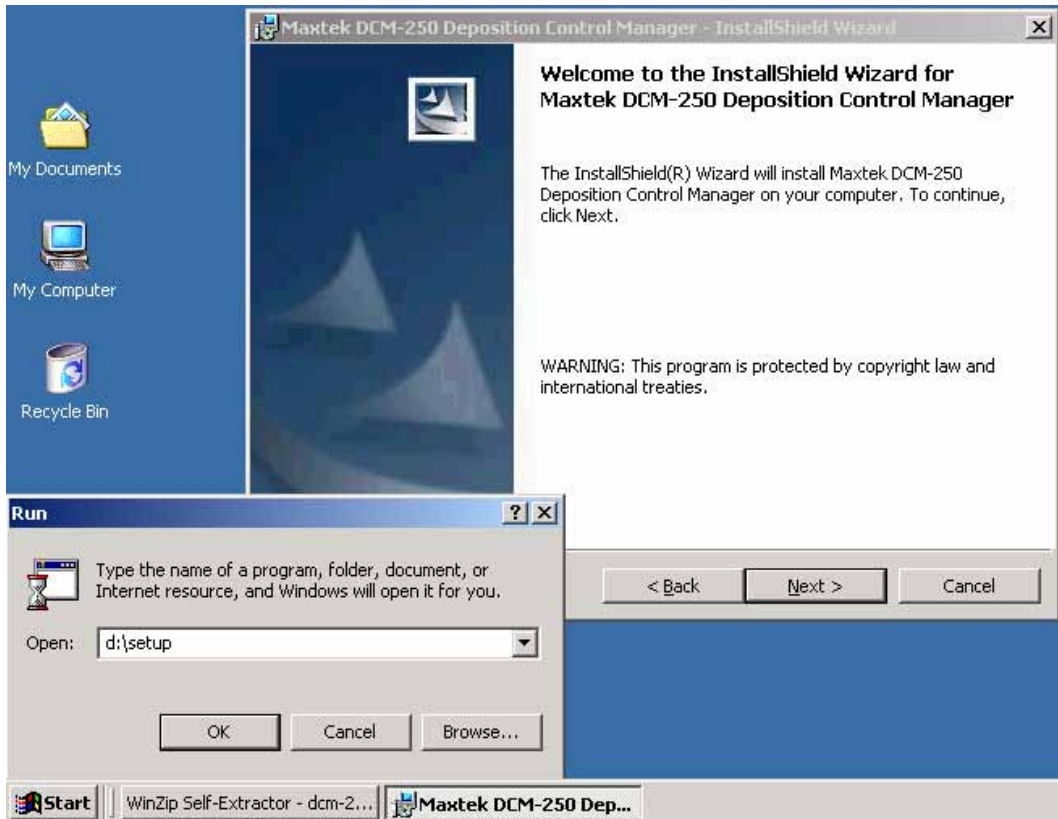
DCM-250 SPECIFICATIONS

<p>Deposition Controller Software</p>	<p>MDC-260/360C/361C can have any software version installed.</p> <p>MDC-360/361 must have a minimum of software version 3.9e installed* to use the DCM-250, but 3.9m or later is required to use the Run Process command.</p> <p>MDC-370 must have software version 1.2 or later installed*.</p> <p>See the Sign-On Screen section of the respective Operation and Service Manual for details on determining the software version</p> <p>If your controller doesn't meet these requirements you will need to contact us and/or your local distributor for details on the possible upgrade options.</p>
<p>Pentium 233 MHz or faster (PIII-500 or better recommended)</p>	<p>Equivalent processors may also be used, but typically require a faster speed for the same performance level.</p>
<p>Windows 98SE/ME/2000/XP</p>	<p>We recommend that you install the latest service pack prior to installing this software. Contact Microsoft for more details.</p>
<p>16 MB RAM <i>minimum</i> In addition to the operating system requirements.</p>	<p>More memory is recommended with later versions of Windows.</p>
<p>1 Communications Port</p>	<p>Depending on the hardware configuration of the deposition controller you will need either an RS-232, RS-485, USB or IEEE-488 controller card installed in the host computer.</p> <p>Special hardware drivers must be installed prior to using the respective function.</p>
<p>SVGA Monitor</p>	<p>800 x 600 minimum resolution. 1024 x 768 or higher recommended.</p>
<p>CD-ROM drive</p>	<p>Required for CD-ROM installation, <i>only</i>.</p>
<p>Internet Explorer 5.5 or later</p>	<p>The DCM-250's Help system requires Internet Explorer version 5.5 or later to be installed to work properly. If you are using an earlier release, you will need to upgrade prior to using Help.</p>
<p>11 MB Free Hard Disk Space</p>	<p>Additional space is required to record run time data. The exact amount varies with the Data Points/Minute setting.</p>

* These versions added a new auto-data logging command, which is required by the DCM-250's Monitor Process screen.

INSTALLING THE DCM-250

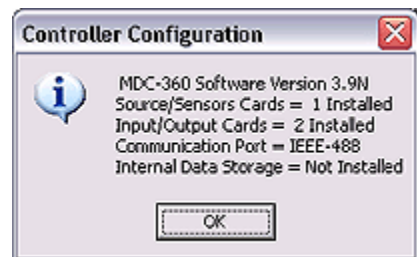
The setup program should start automatically when you close the DCM-250 installation CD-ROM into your drive. If it doesn't you will need to start it manually by clicking **START >> RUN**, type **X:SETUP** in the **OPEN** field as show, then click **OK**, where **X** is your computer's CD-ROM drive letter. Then follow the instructions to complete the setup process.



ESTABLISHING COMMUNICATIONS WITH THE DEPOSITION CONTROLLER (RS-232 OR 485*)

1. Connect your computer's serial port to the controller's serial port using a D-sub straight 9-pin female to 9-pin female cable.
2. Turn on the Computer
3. Turn on the Deposition Controller.
4. Check the Controller's Interface Address.
 - From the Main Menu, go to Edit System Setup >> Edit Utility Setup.
5. Start the DCM-250 software.
 - If the DCM displays an error message, choose the option that enables the SIMULATE mode.
6. Click Utilities >> COMM Port Settings, which opens the COMM Port Settings dialog.
7. Select "Serial (RS-232/485)" in the Communication Port Type combo box if it's not selected already
 - Older versions of the DCM call this setting "RS-232"
8. Verify that the DCM-250's Interface Address setting is the same as the Controller's (see step 4).
9. Set "RS-232/485 Serial Port" to the port you plan to use to communicate with the controller.
10. Click OK

The DCM-250 will attempt to communicate with the Controller using the new settings. If successful, it will display the Controller Configuration as shown on the right.



COMMUNICATION MODE SETTINGS

The DCM-250 has three communication modes:

- **Simulate Mode**

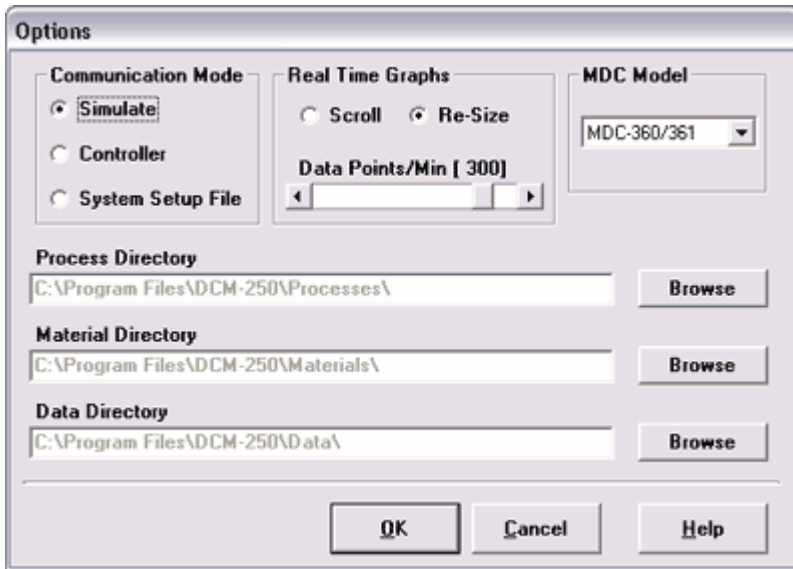
Select this mode to run a demonstration of the DCM software. In this mode, the DCM-250 does not communicate with the deposition controller. It only simulates some of the functionality of the DCM. This mode is helpful for testing how program will run off-line (similar the controller's simulate mode).

- **Controller Mode**

This mode allows you to fully configure your DCM-250 from your computer. It also enables the real-time Data Logging functions. When selected, the DCM-250 will attempt to communicate with the controller using the Communications Port Type specified in the COMM Port Settings dialog. If successful, The DCM will display the Controller Configuration.

- **System Setup File Mode**

Select this mode if you would like to view/edit a previously saved System Setup file. A system setup file contains the complete parameter setup of the controller at the time that the file was created. When System Setup File mode is selected, all parameter viewing and editing is done with the setup file data. This allows the user to view and edit the setup when not connected to controller.

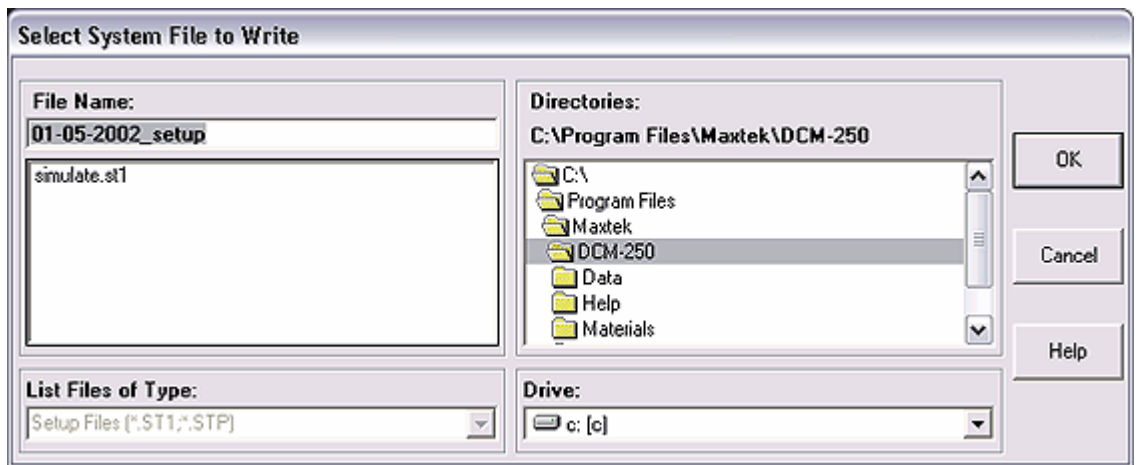


To change the DCM-250 communication mode, select the Options item from the Process menu.

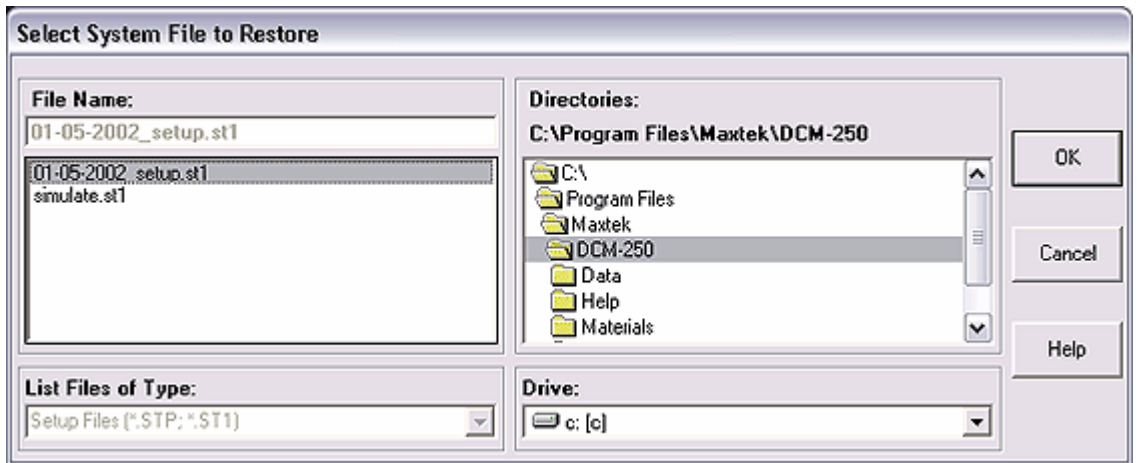
SAVING AND RESTORING THE CONTROLLER SETUP

The DCM-250 allows you to save and restore the complete parameter setup of the MDC-360/370 series deposition controller at any time. When saved, the data is written to a system setup file. The DCM allows you to save any number of setup files.

To save the controller's system setup, select Save Controller Setup from the Utilities menu. The Select System Setup File Screen will come up asking for the filename and path. Once entered, the complete parameter setup of the MDC-360 will be saved to the selected file.



To restore a system setup file to the controller, select Restore Controller Setup from the Utilities menu. The Select System Setup File screen will come up asking for the system setup filename. Once entered, all of the system setup data will be sent to the MDC-360.



It's a good idea to make periodic backup copies of the setup files. This will minimize the possibility of having to manually re-program the deposition controller in the event that it gets damaged or the program gets changed inadvertently.

COMMUNICATIONS TROUBLESHOOTING

If you have any communication errors then check the following:

- Make sure the Deposition Controller's power is on.
- Check the cable connection between the Controller and the computer.
- Make sure that you have the correct communications port selected in the DCM's RS-232 Setup Screen. Select Serial Port from the Utilities menu to see the dialogue for this setting.
- Make sure that the Interface Address setting in the Controller is the same as the DCM.

To test the communications select the Version item from the Process menu. If there aren't any problems then the Deposition Controller's configuration data will be displayed.