

Micro Control Systems

APPLICATION NOTE

APP-070

Touchscreen Lock and Unlock Procedure

Revision History

Date	Author	Description
04/20/11	Weston Klebs	Created application note

In order to prevent corruption of the touchscreen's Flash memory due to power failure or surge we have installed a write-protect locking mechanism. This write-protect lock creates a Ram Disk to which all changes and updates are written. In order to make any changes to the touchscreen's memory the write-protect must first be disabled. This is referred to as "unlocking" the touchscreen. Once all desired changes are made, the write protect must then be re-enabled or "locked". Any action taken to change any file on the "locked" touchscreen will be written to the Ram Disk and are temporary. Changes can be made to a "locked" touchscreen but will be lost after a restart or power failure occurs.

There are 3 .bat files associated with this procedure: **lock.bat**, **unlock.bat**, and **lockCheck.bat**. They are located in the "**C:\MCS**" folder on the touchscreen. (On older versions of touchscreens these files were located in the "C:\Documents and Settings\All Users" folder. If you cannot find them in the "C:\MCS" folder, check there.)

- **To Unlock the touchscreen**

1. Navigate to the "C:\MCS" folder on the touchscreen.
2. Double-click the **unlock.bat** file. A command line window will briefly open and execute the command and then automatically close.
3. Restart the touchscreen. Upon restart the touchscreen will be "unlocked" and any change made will persist.

- **To Lock the touchscreen**

1. Navigate to the "C:\MCS" folder on the touchscreen.
2. Double-click the **lock.bat** file. A command line window will briefly open and execute the command and then automatically close.
3. Restart the touchscreen. Upon restart the touchscreen will be "locked" and any change made will NOT persist.

- **To Check the protected status of the touchscreen**

1. Navigate to the "C:\MCS" folder on the touchscreen.
2. Double-click the **lockCheck.bat** file. A command line window will open, execute the command and then present 2 sets of information concerning the lock status.
3. The first set of information will state the current status of the write filter. The first line is "File-based write filter configuration for the current session:". Below this line a value for the filter state is given. It will either be "disabled" or "enabled". If it is enabled it will also list general information about the write-based filter.
4. The second set of information will state the status of the write filter the next session (after restart). The first line is "File-based write filter configuration for the next session:". Below this line a value for the filter state is given. It will either be "disabled" or "enabled". If it is enabled it will also list general information about the write-based filter.