MC-LS Demo Application

**Caution**

**This demonstration software and source code is provided AS-IS without a warrantee or guarantee of any kind. SCHOTT will not be liable for any damages or malfunction related to the use of the software or source code. Use at your own risk.**

# Introduction

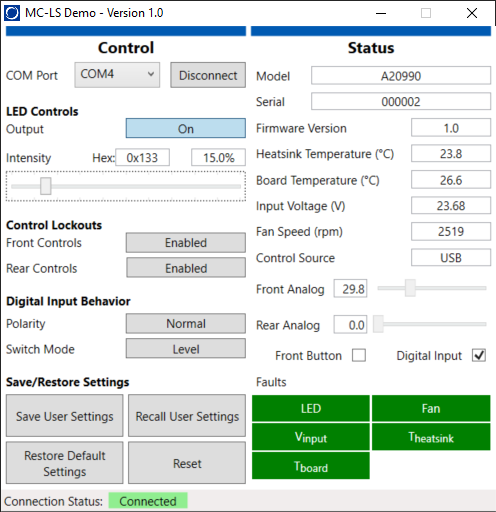
The MC-LS Demo Application is intended to demonstrate remote control of an MC-LS using either the USB or serial ports. Its primary purpose is to show the commands necessary to control and obtain the status of an MC-LS connected to the PC with the USB or standard RS-232 connection.

# Using the Application

1. Apply power to the MC-LS and connect it to the PC via USB or RS-232. If using USB, install the USB drivers as described in the MC-LS Remote Operations Guide if needed.
2. Locate the file “MC-LS Demo.exe” and run it.
3. The following window will appear:



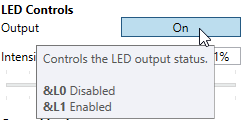
1. Click on the drop-down box next to COM Port and select the COM port to which the MC-LS is attached.
2. After detecting the MC-LS, the rest of the UI will be enabled and the various controls can be manipulated to adjust the MC-LS.



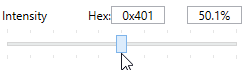
1. The left half of the window contains controls that affect the operation of the MC-LS. The right half of the window shows the values of things like temperatures, voltages, fan speed, errors, etc.
   1. For example, clicking the button to the right of “Output” will turn the MC-LS LED output on or off.



* 1. Hovering the mouse over each control will cause a tool-tip to appear, which describes the control and the serial command used by that control.



* 1. Dragging the intensity slider will vary the brightness of the LED output. The output is displayed as a percentage and as a hex value between 0x000 and 0x7FF corresponding to 0% and 100%. The tool-tip for the intensity control explains how to use this value in the serial command. The ability to change the intensity by entering a value into either text box has not been implemented.



# Source Code

The source code for the MC-LS Demo Application is written in C# using Visual Studio 2019. At a minimum, the “.NET desktop development” workload must be installed within Visual Studio.

To compile and run the source code, open "MC-LS Demo.sln" with Visual Studio, then press F5. After several seconds the application window will appear. Follow the instructions in the **Using the Application** section to control a connected MC-LS.