Engineering Note

Topic: USB-LS-450 Temperature Recalibration

Product Affected: USB-LS-450

Date Issued: 2/14/2003

Description

Periodically, the temperature sensor in the USB-LS-450 may require calibration. The user can accomplish this by exposing the temperature probe to two known temperatures.
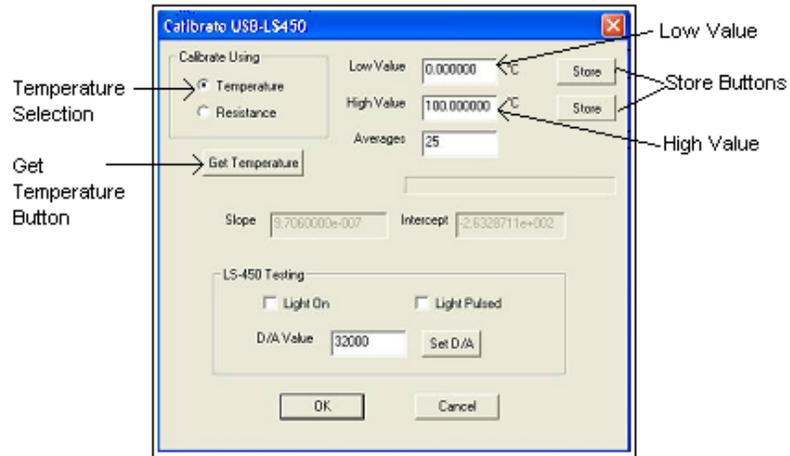
Recalibration Procedure

► *Procedure*

To recalibrate the temperature sensor, do the following:

1. Connect the USB2000, USB-LS450 and temperature probe together and plug the USB cable into the PC.

2. Start the USB Programmer Utility (downloadable from http://www.oceanoptics.com/Technical/softwaredownloads.asp).

3. Click **USB-LS450** on the left side of the window, and then press **Calibrate**. The **Calibrate USB-LS450** window appears.

4. Ensure **Temperature** is selected in the **Calibrate Using** box.

5. Expose the probe to the lowest of the two calibration temperatures and enter this temperate in the **Low Value** box. Press the corresponding **Store** button.

6. Expose the probe to the highest of the two calibration temperatures and enter this temperate in the **High Value** box. Press the corresponding **Store** button.

7. When prompted, answer **yes** if you want to save the calibration results.

8. To verify the calibration, reopen the **Calibrate USB-LS450** window and click the **Get Temperature** button. The resulting temperature displays just below the button.