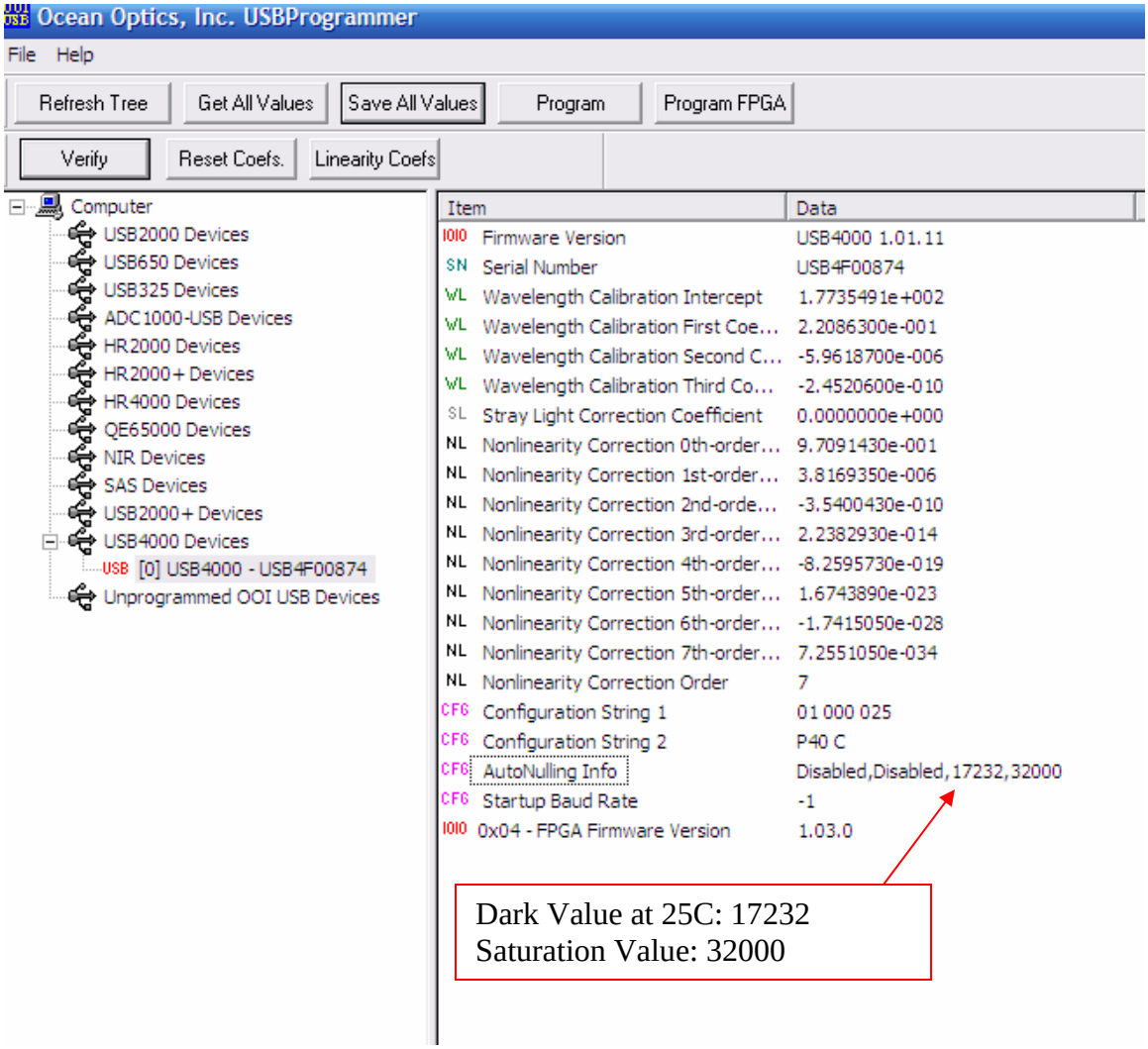
Ocean Optics Inc.
Engineering

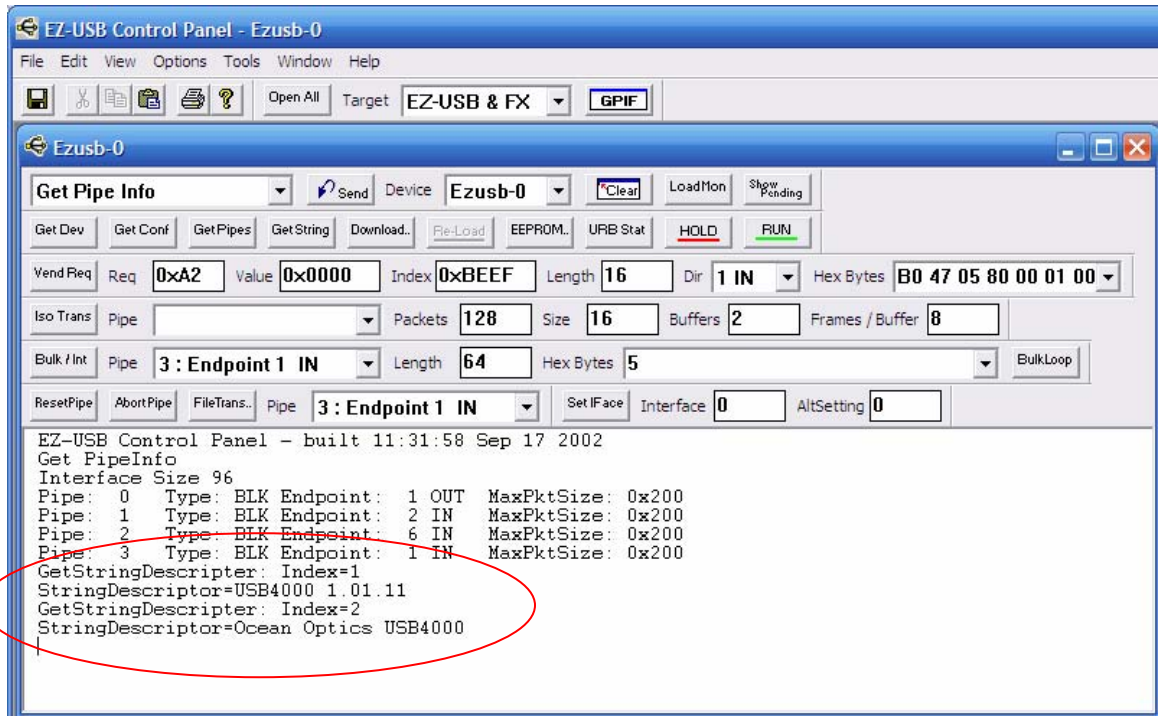
Steps to read the AutoNulling Values from EPROM using USB Command Set

1) First thing, plug your spectrometer, open the USB EPROM Programmer.

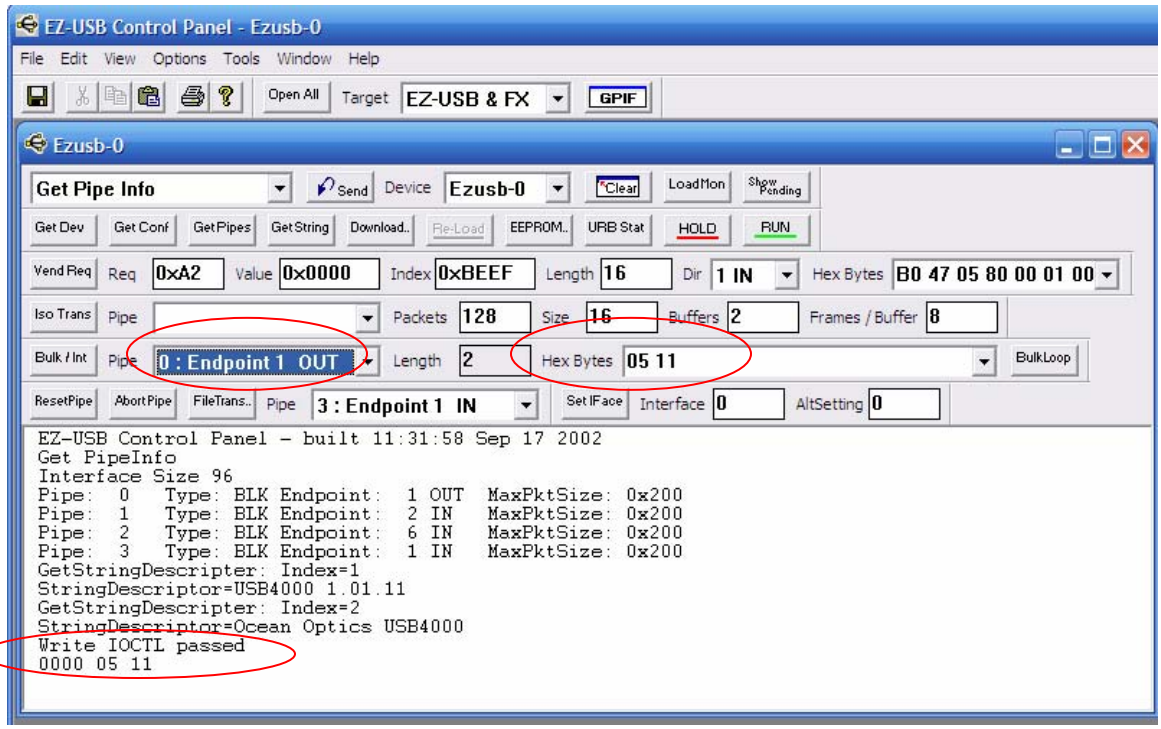
2) Double-check the values from the AutoNulling Info:



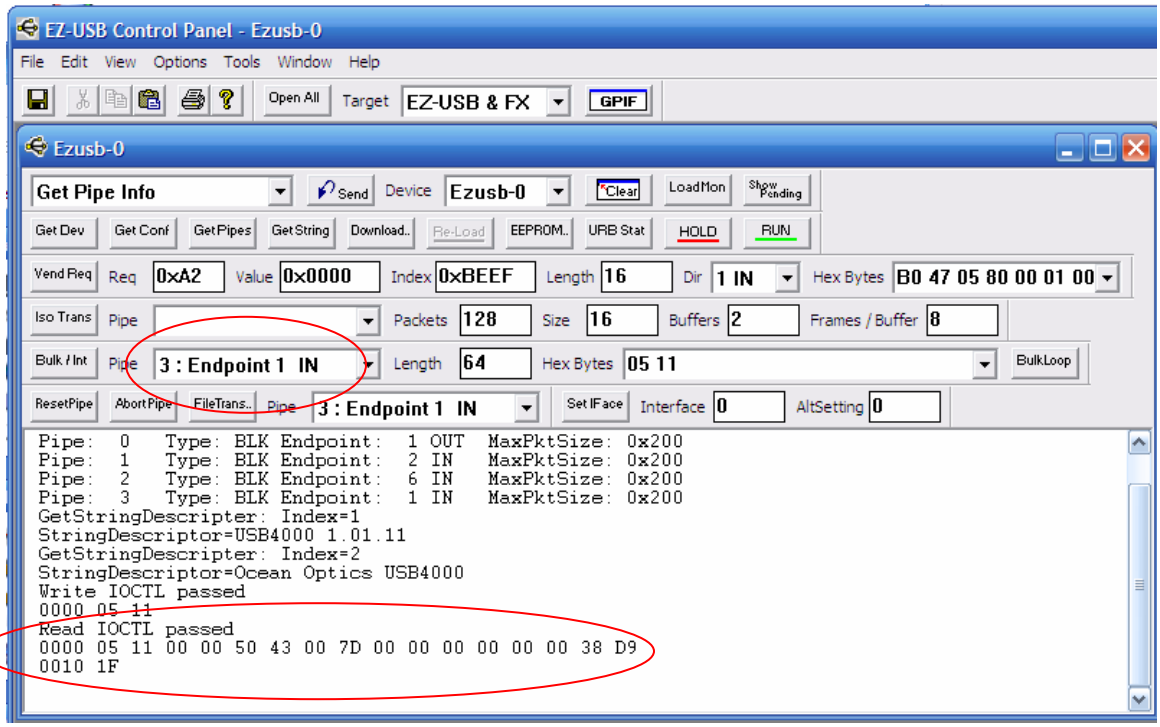
3) Open USB Control Panel (this case Cypress Control Panel, EZMr) and get a string:



4) Send command 0x05 0x11 through Endpoint 1 OUT, and receive knowledge.



5) Change pipe to Endpoint 1 IN and send Bulk, receiving Byte info from slot.



6) To convert the values do the following:

Word:
Read IOCTL passed
0000 05 11 00 00 50 43 00 7D 00 00 00 00 00 00 38 D9
0010 1F

Description:
0511 – Byte 0 and Data Byte
5043 – ASCII Byte 4 and 5 (Dark Value)
007D – ASCII Byte 6 and 7 (Saturation Value)

Conversion:
Hex 4350 to Decimal 17232
Hex 7D00 to Decimal 32000

These values match the ones from the USB EPROM Programmer.