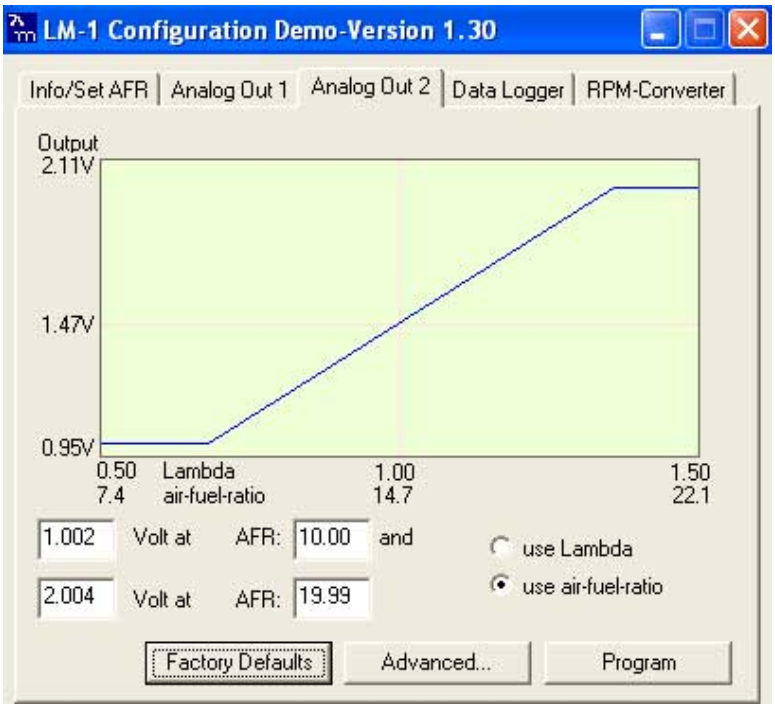
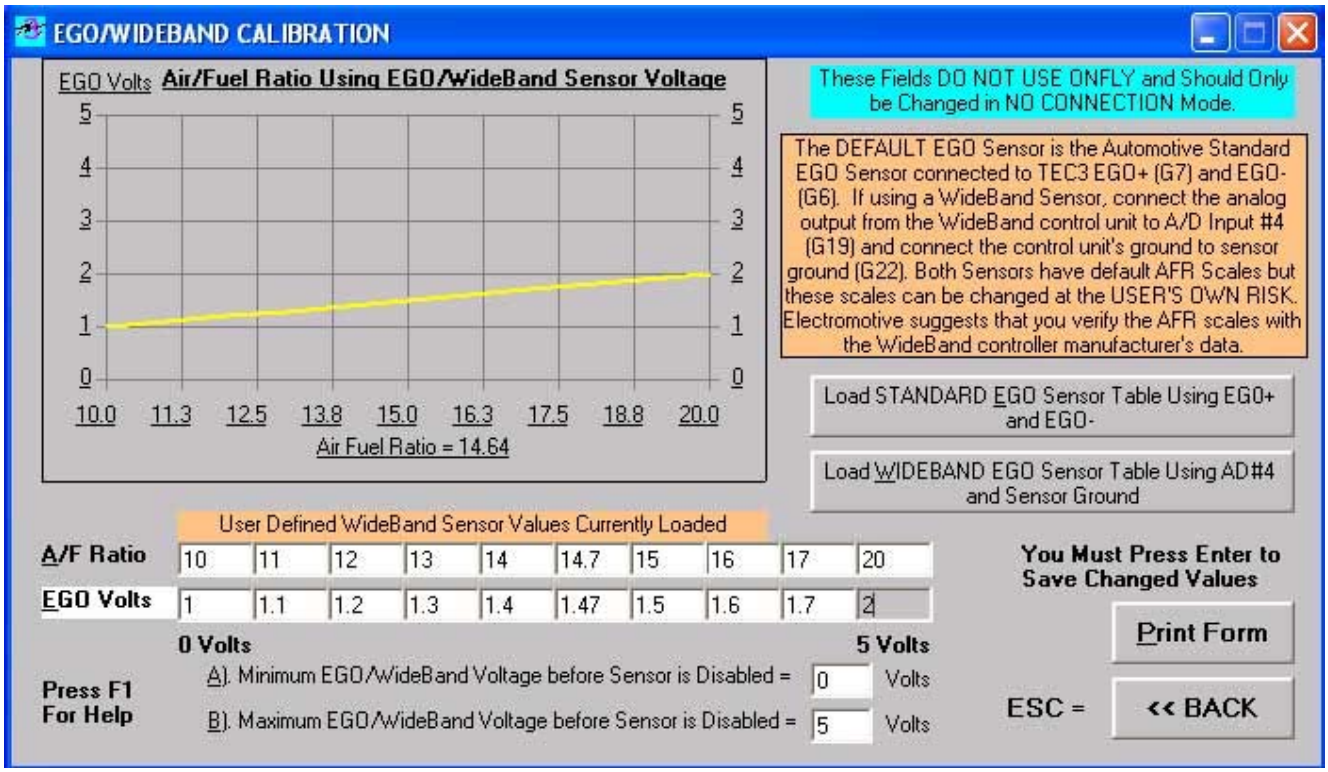
AN-12, Rev. 2: Application Note- Interfacing the LM-1 with TEC-3

The simplest method is to use the LM-1's analog output #2 (White wire on analog output cable) connected to TEC-3's A/D input #4 (G19). Both LM-1 outputs are programmable, but output #2 is **factory programmed** to output 1V at 10AFR and 2V at 20AFR, as per the following page in the LM-1 software:

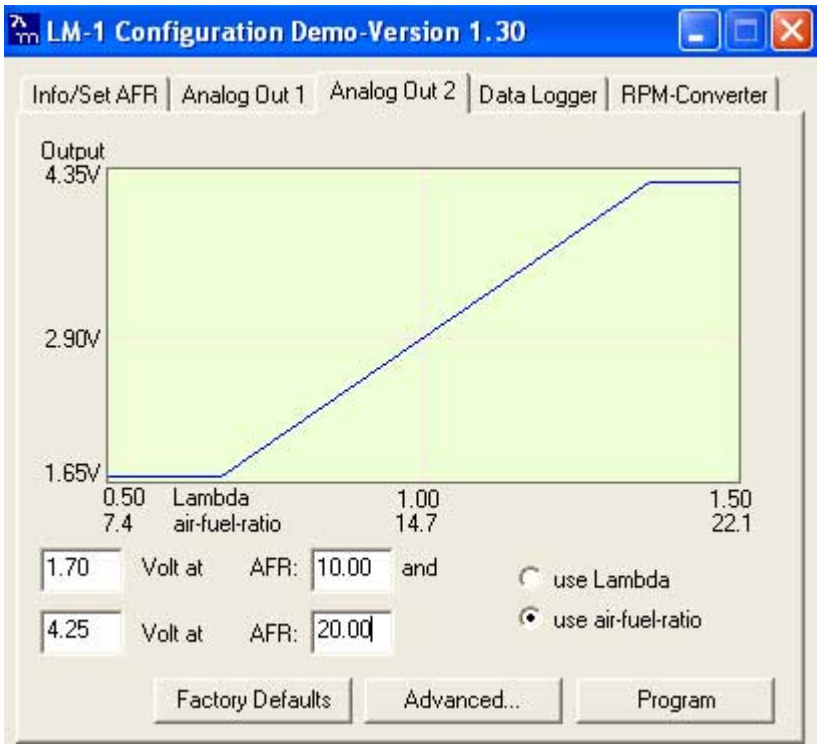


With this output, you will need to input the following values into the WinTEC3 EGO/Wideband Calibration table:



NOTE: It is important to connect the LM-1's analog output ground to the TEC-3's ground (G22).

Since the LM-1 is absolutely linear, any setting you choose requires "linear-izing" the TEC-3 EGO/Wideband Calibration table. For example, if you set the LM-1's output to scale from 1.7V at 10AFR to 4.25V at 20AFR (to approximate the WinTEC preset for "Wideband EGO Sensor"), like this:



You will still need to set the TEC-3 calibration to be truly linear: