Product Family: GS Drives and GSOFT

Number: AN-GS-011

Subject: PID tuning with GSOFT software PID utility

Date Issued: 08/01/03

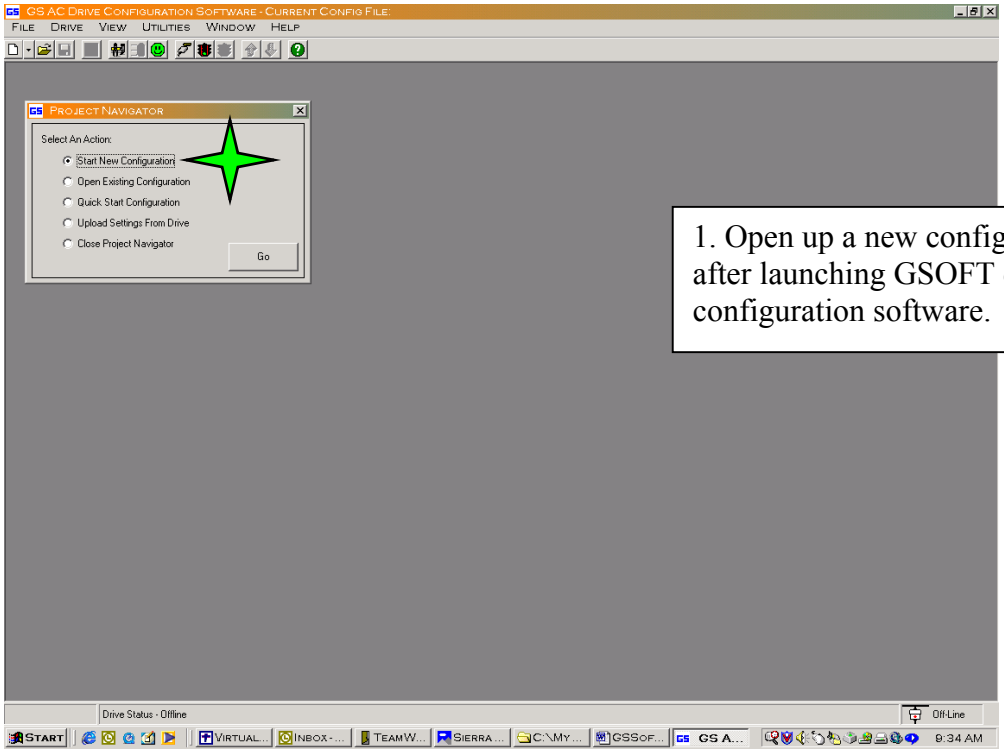
Revision: Original

Specifications

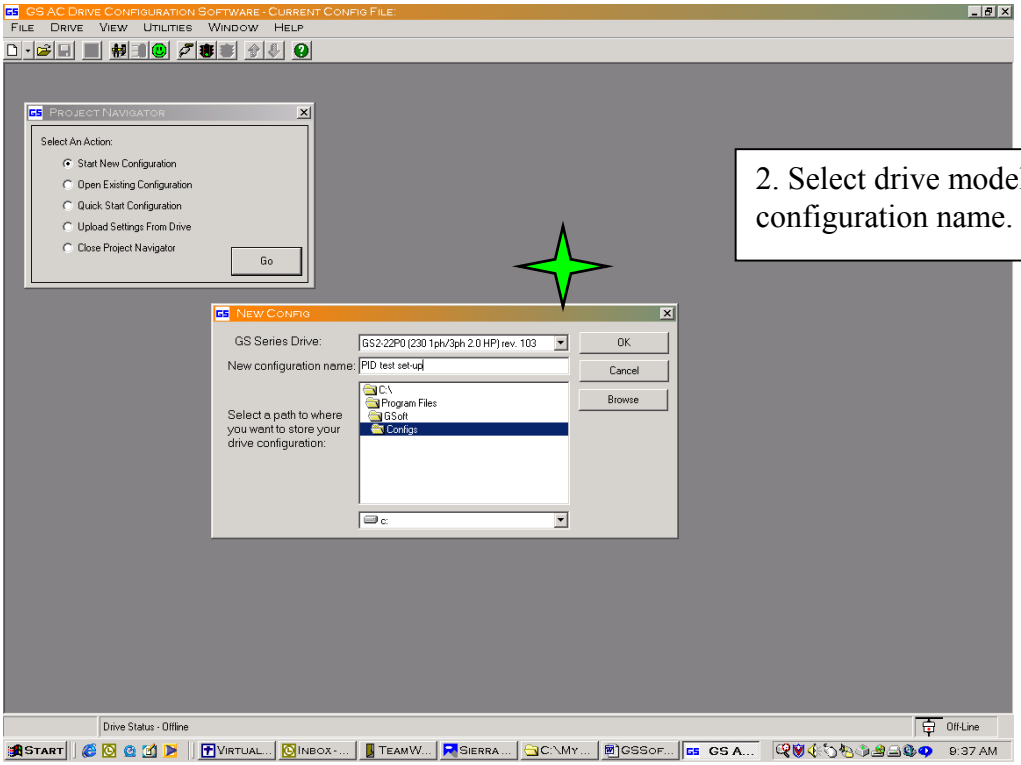
Drive:	Various GS series
Software:	GSOFT software
PC:	Standard PC
Cable:	GS-232CBL

Preliminary

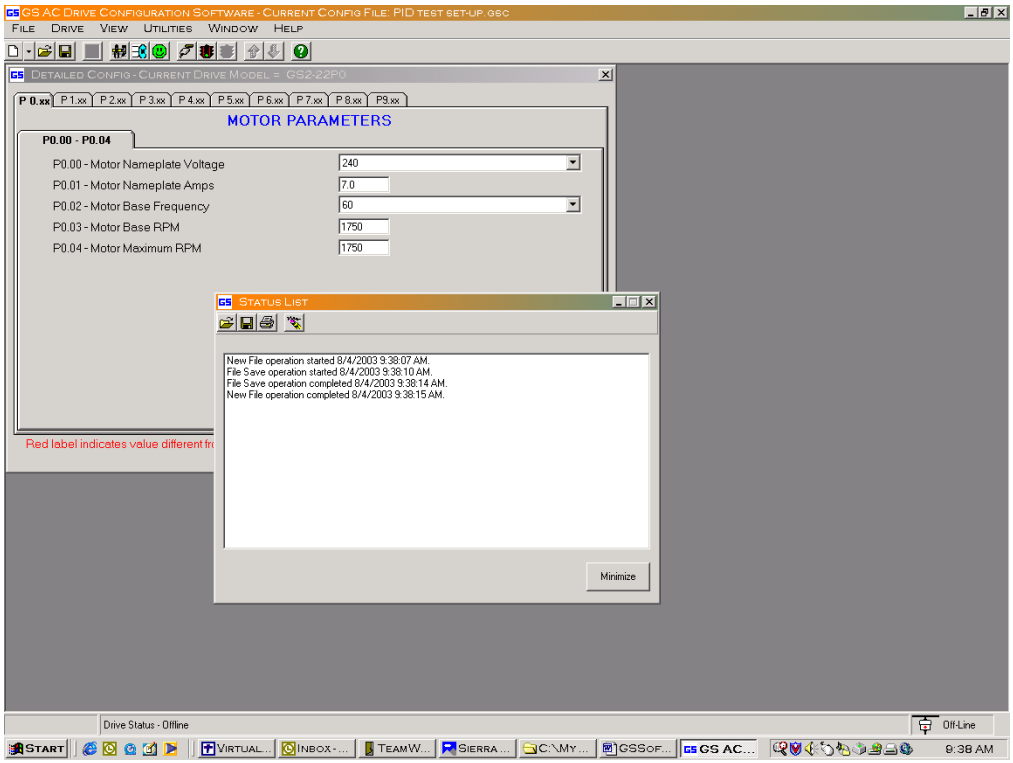
The PID tuning utility on GSOFT drive configuration software is very important for the proper tuning of PID loops utilizing the onboard PID control of the drive. In the past users would have to hook up an external chart recorder to tune a loop precisely. Today this approach, although viable, is cumbersome. With GSOFT's PID tuning utility, you have the best of both worlds, precision and practicality.

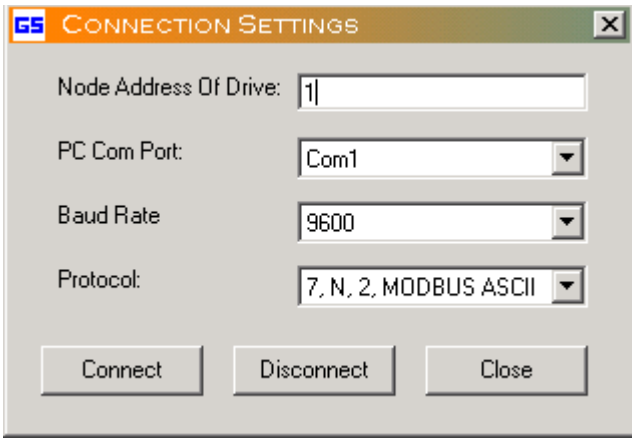


1. Open up a new configuration after launching GSOFT drive configuration software.

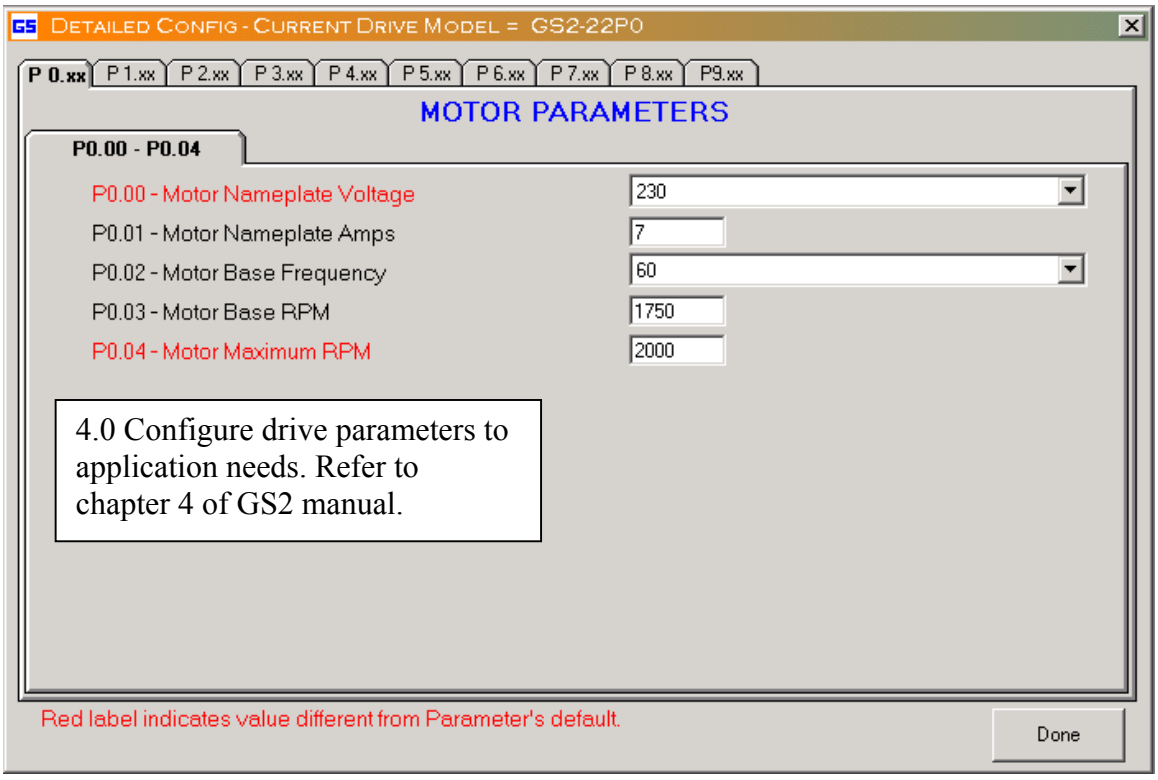


2. Select drive model and new configuration name.

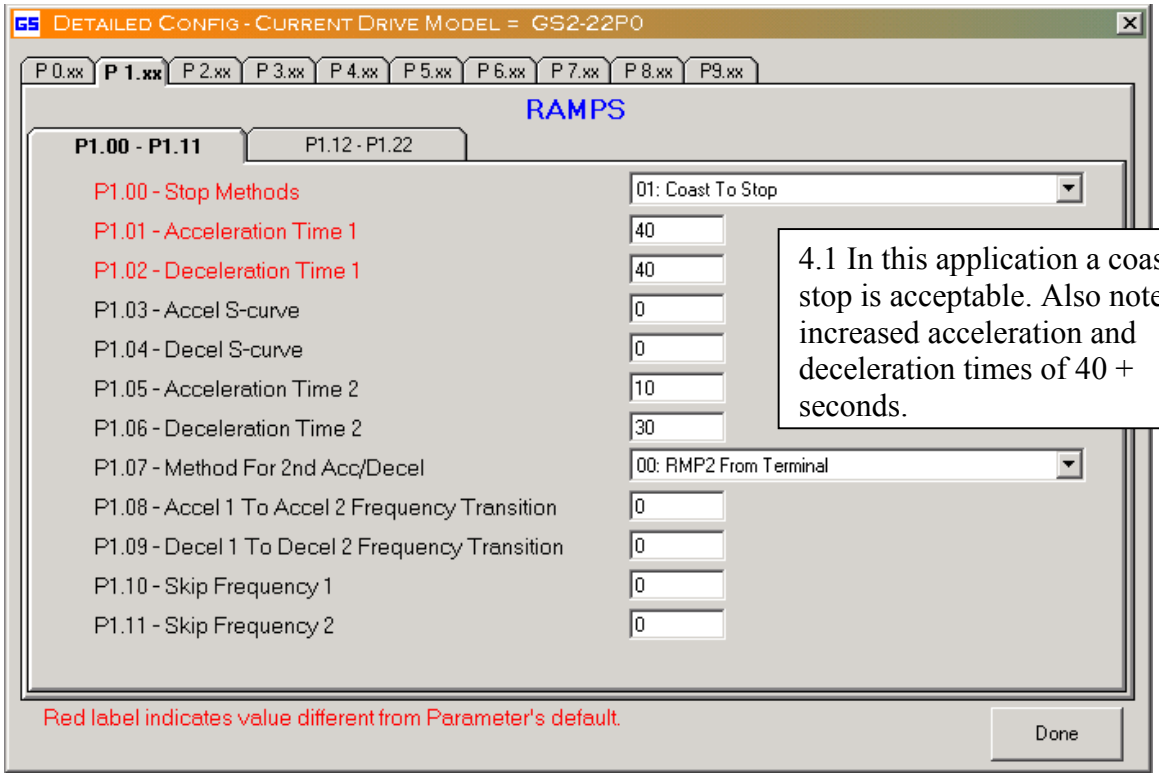




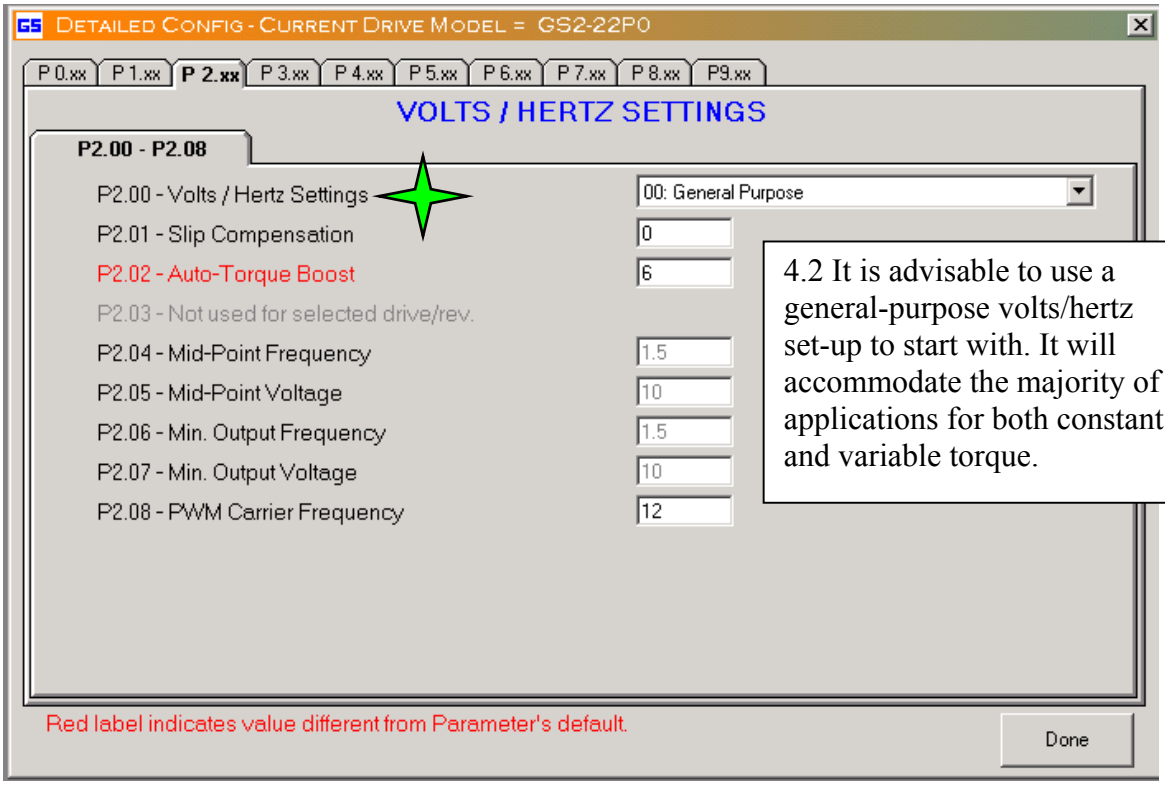
3. Connect to drive over serial interface.



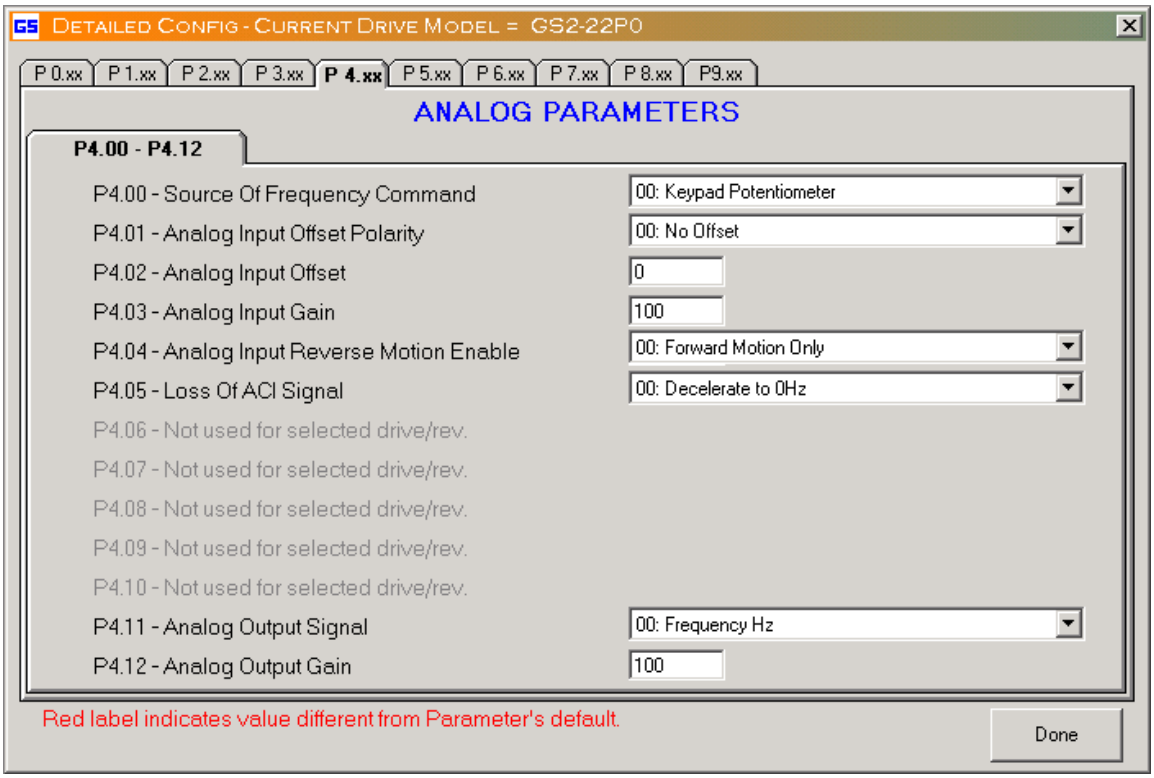
4.0 Configure drive parameters to application needs. Refer to chapter 4 of GS2 manual.

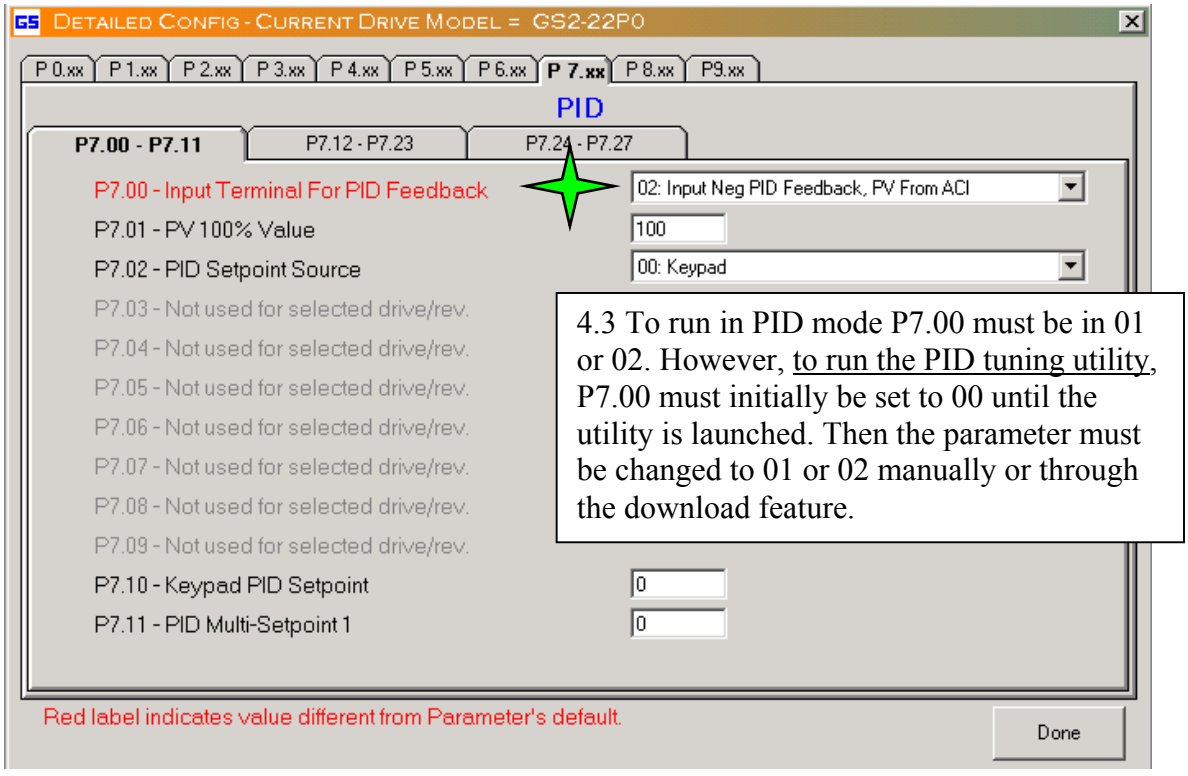


4.1 In this application a coast to stop is acceptable. Also note the increased acceleration and deceleration times of 40 + seconds.



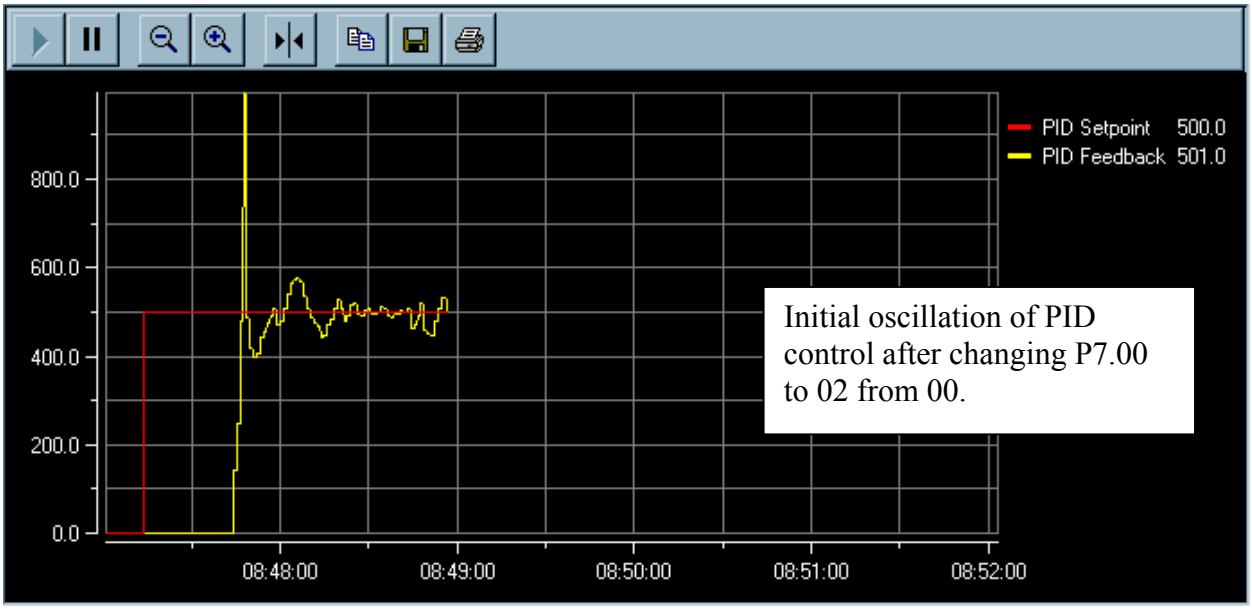
4.2 It is advisable to use a general-purpose volts/hertz set-up to start with. It will accommodate the majority of applications for both constant and variable torque.

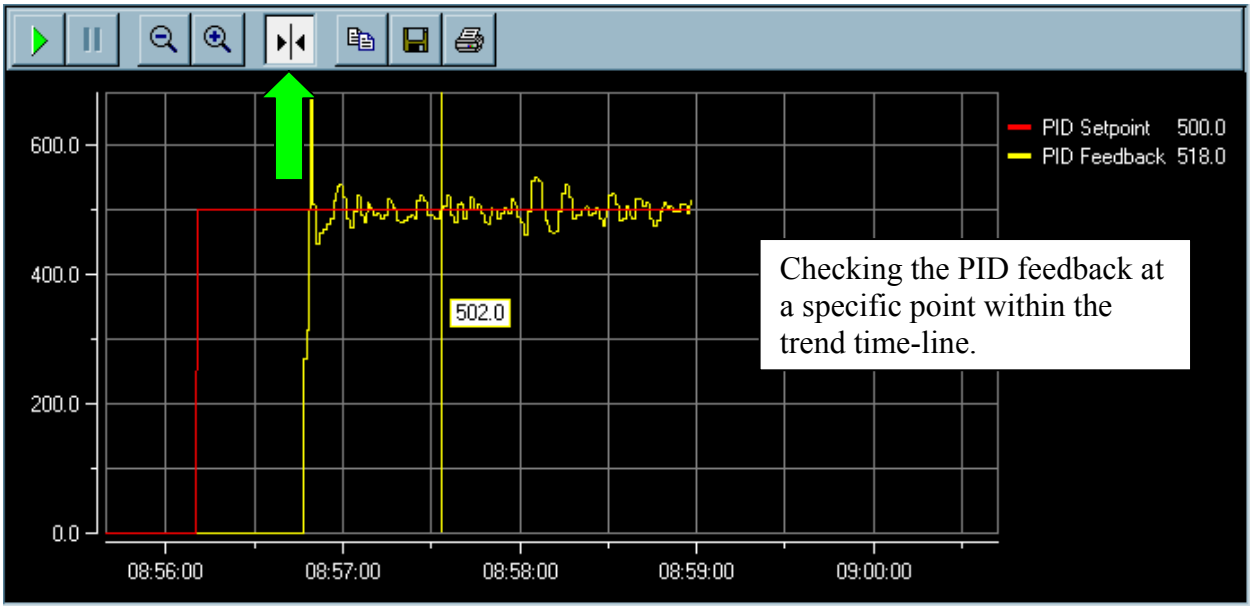


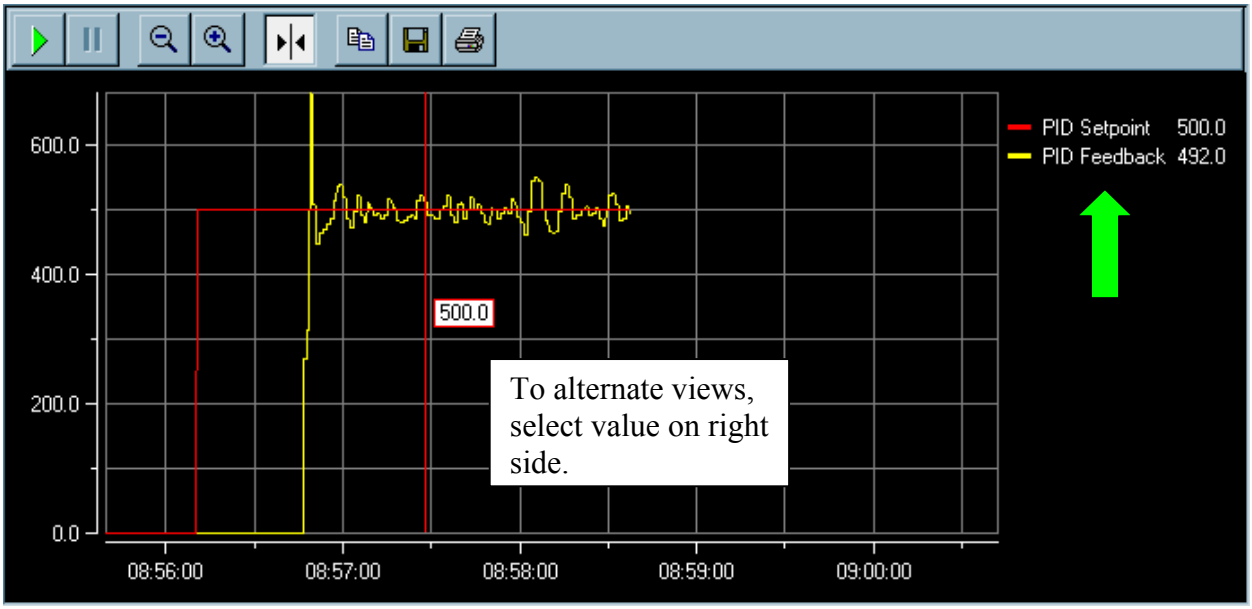


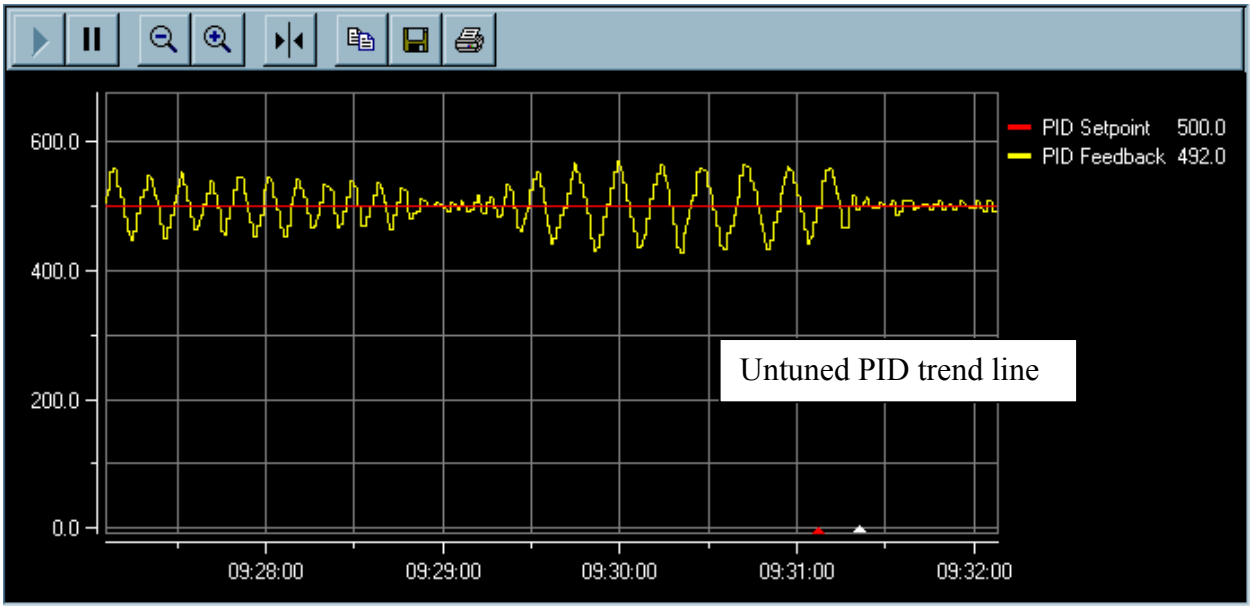
4.3 To run in PID mode P7.00 must be in 01 or 02. However, to run the PID tuning utility, P7.00 must initially be set to 00 until the utility is launched. Then the parameter must be changed to 01 or 02 manually or through the download feature.

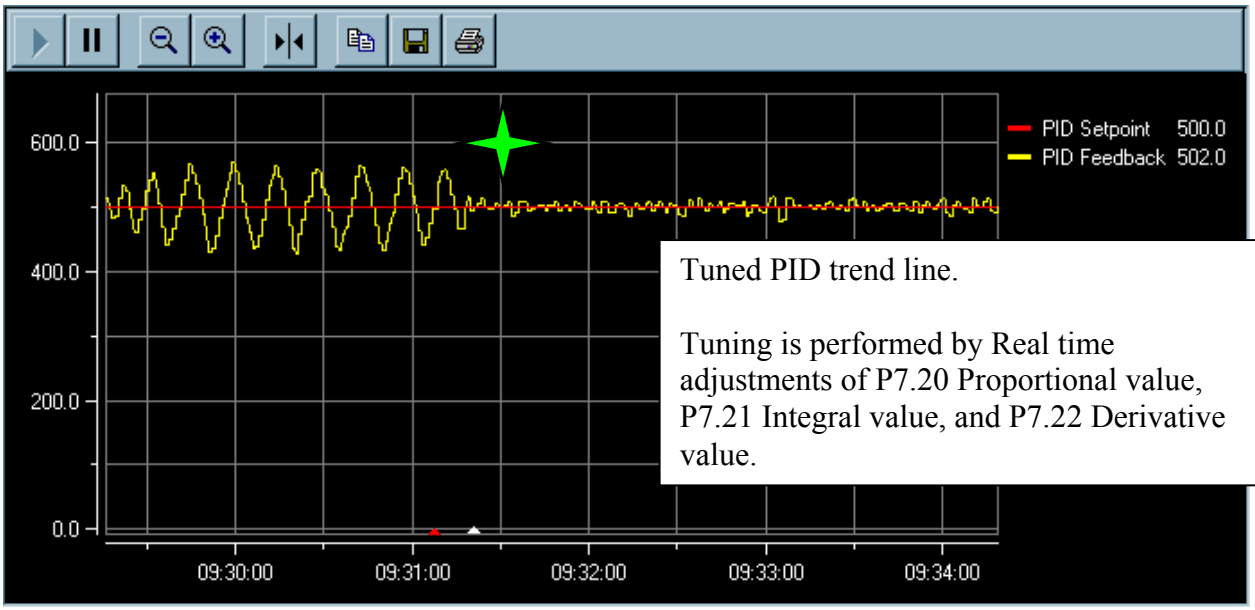
PID tuning utility window:











Technical Assistance: If you have questions regarding this Application Note, please contact us at 770-844-4200 for further assistance.