

Application Note

Converting PID Gains from DECS-400 to DECS-450

The DECS-450 Digital Excitation Control System is backward compatible with DECS-400 systems and the retrofit process is simplified with an easy-to-use PID gain converter. This converter

is a software tool, included with BESTCOMSPi^{us}®, for converting DECS-400 gain values into equivalent DECS-450 gain values.

To convert DECS-400 PID gains, open BESTCOMSPi^{us} and load the desired DECS-450 settings file. In BESTCOMSPi^{us}, click Tools, Convert Gains to open the screen (shown in Figure 1). Simply enter the DECS-400 gains into the appropriate fields in the DECS-400 column. Select whether OEL Mode is Summing Point or Takeover. Click Convert to review the new gain values displayed in the DECS-450 Equivalent column. The Apply Gain button automatically enters the new gain values into the appropriate DECS-450 gain settings.

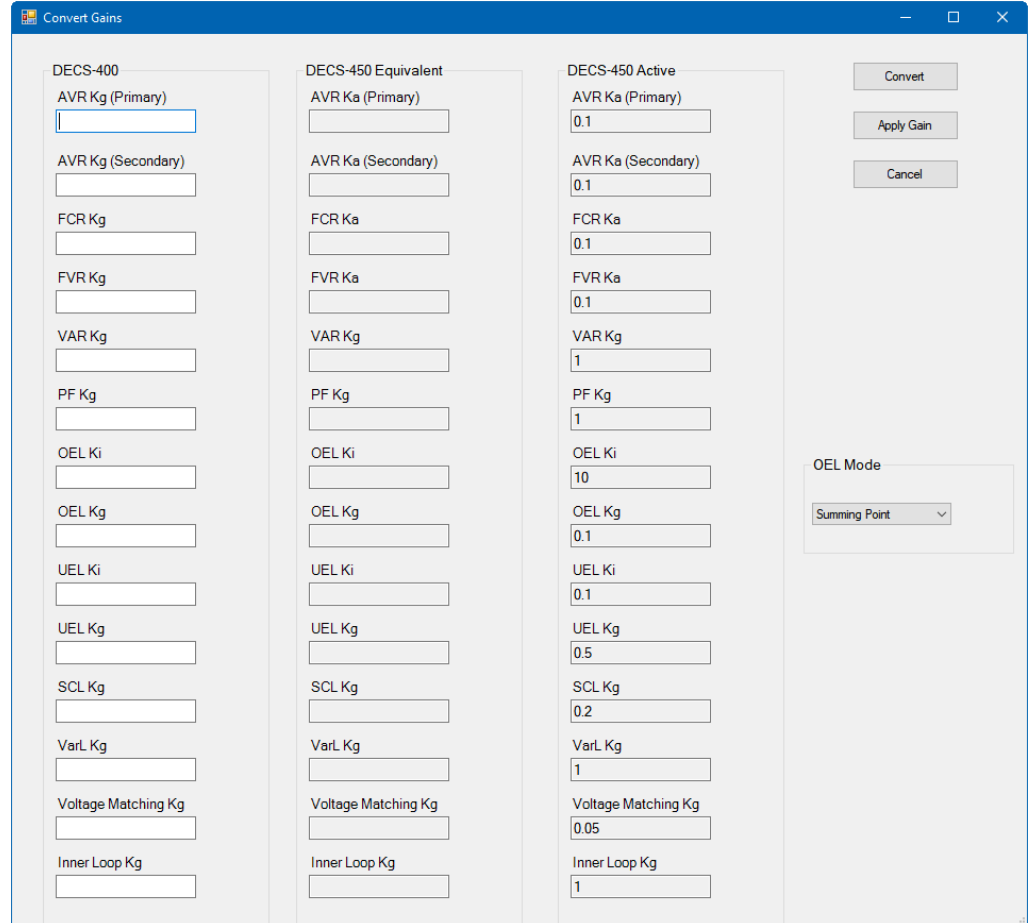


Figure 1. BESTCOMSPi^{us} Convert Gains Screen

Note

The machine's rated data settings must be programmed prior to converting gains because the calculations depend on certain rated data parameters. Refer to the DECS-450 instruction manual for information on rated data settings.

For More Information

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