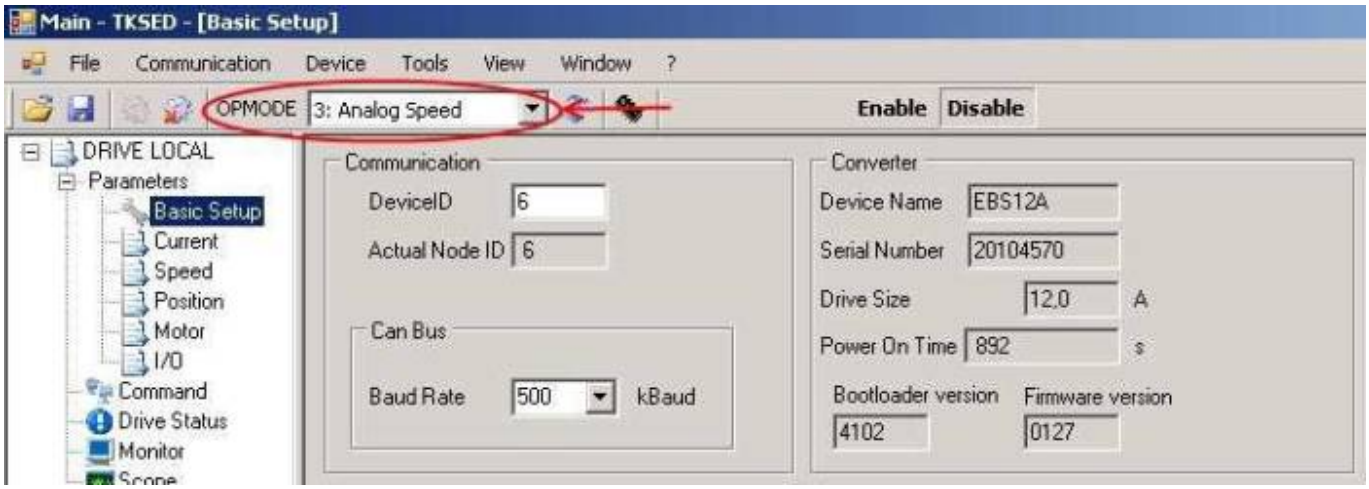
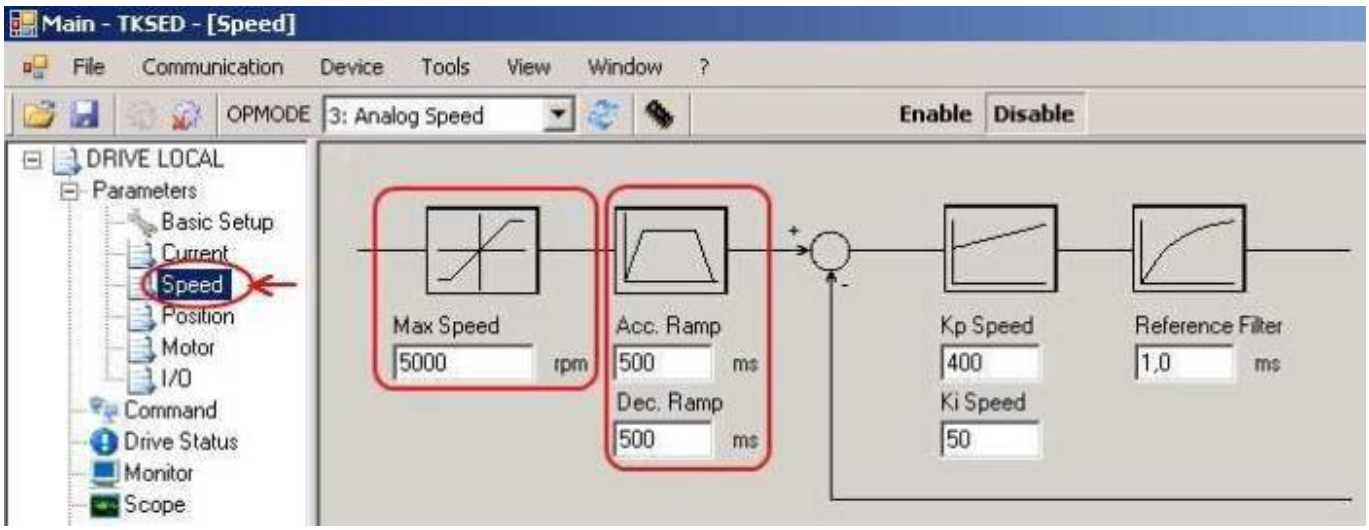
OPMODE “Analog Speed”: software setting

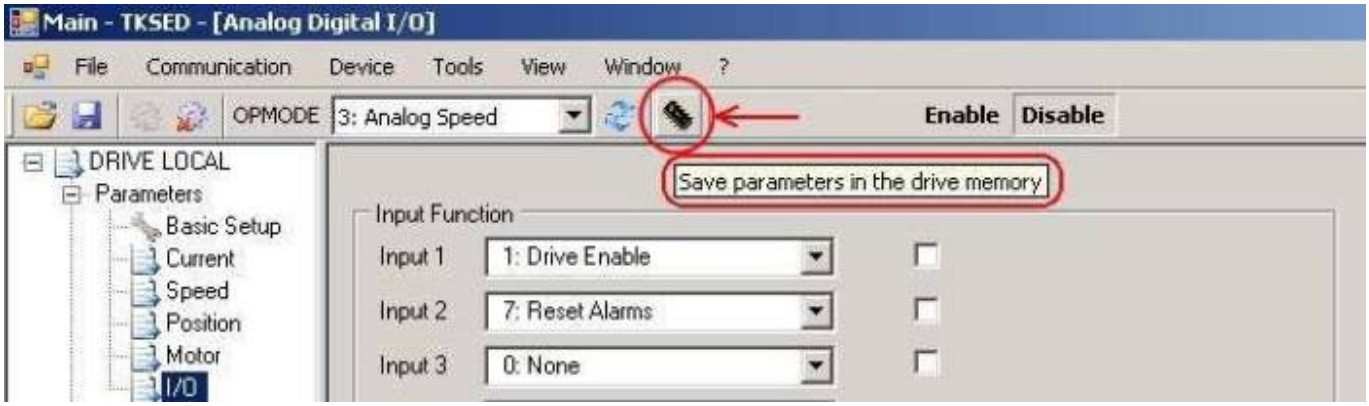
Using TKSED Software (link: https://www.nilab.at/download/tksed-software-pc-tool/?wpdmdl=2126&refresh=637351b08fa4b1668501936), set the OPMODE selector into position “3”: Analog Speed



In this mode, the acceleration ramp (Acc Ramp and Dec.Ramp) is enabled. If you drive the device by a NC, you have to disable the ramps by setting the “Acc Ramp ”(default 500ms) and Dec. Ramp” (default 500ms) parameters to 0.



N.B.: at the end of the parameters setting procedure, press the icon Save parameters in drive memory to make the changes permanent.



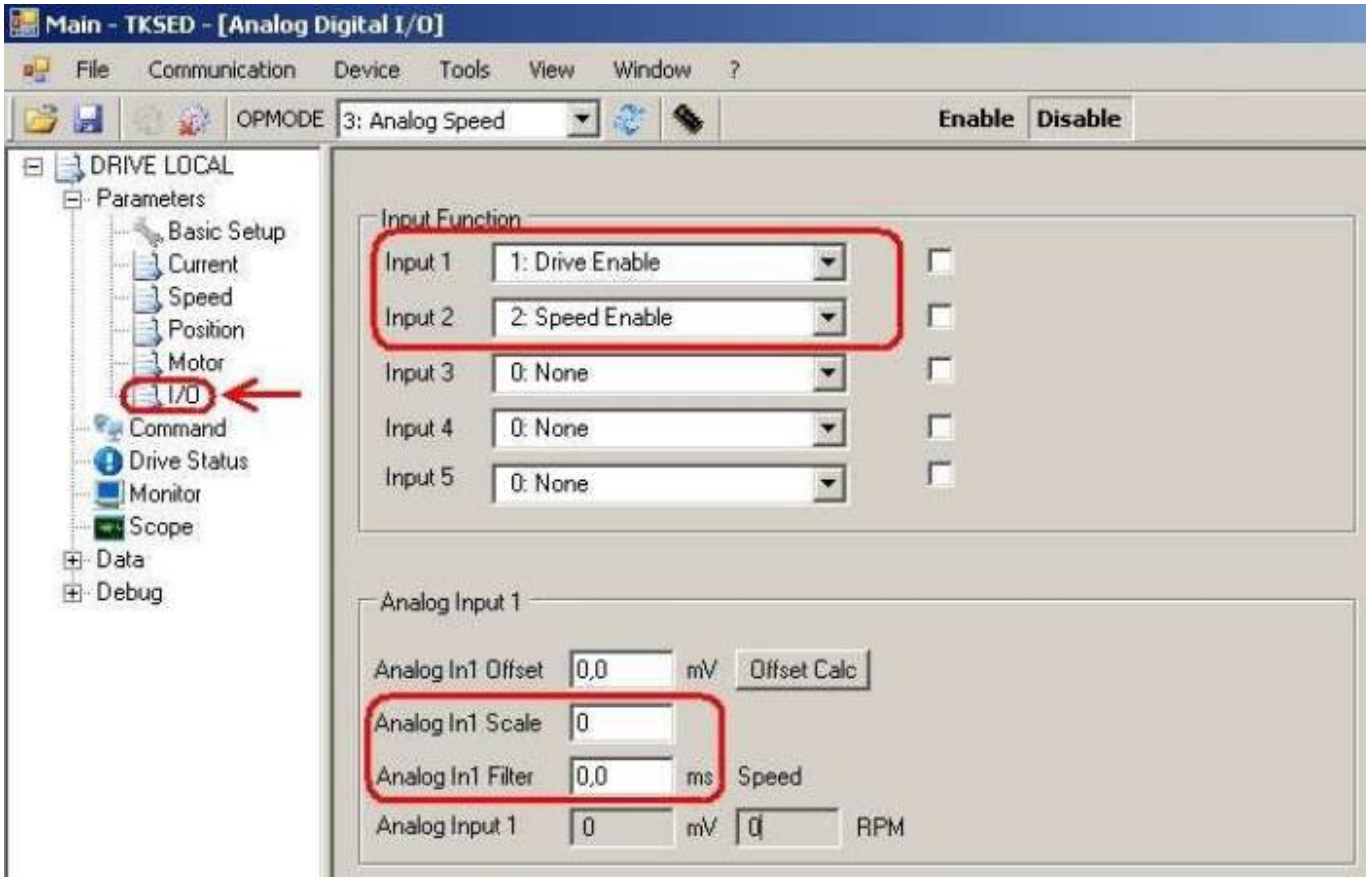
Input and Output window settings

In this window there are the settings for the programmable digital inputs and analog input 1.

Digital inputs setting:

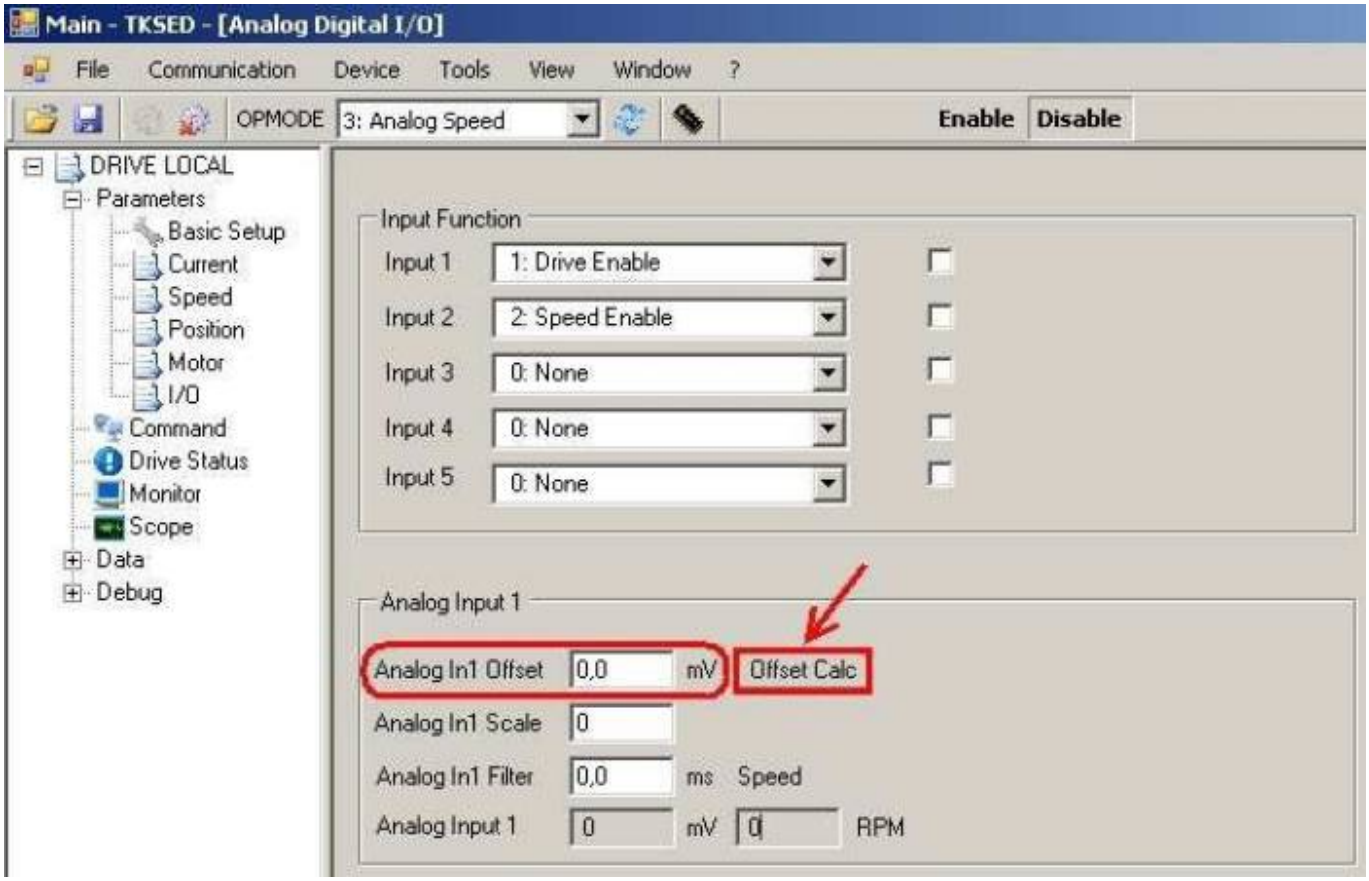
Example:
Setting Input 1 in position 1: Enable Drive and providing 24V on digital input 1 the servo amplifier is enabled.
Setting Input 2 in position 7: Reset Alarms and providing 24V digital input 2; any servo amplifier alarm is reseted.
Setting the analog input 1 scaling.

Example:
Setting Analog In1 Scale = 9000mV and supplying the analog input with a voltage of 9V, motor will rotate at a speed equal that is seted in “Max Speed” parameter on Speed Window, in our example, the motor will rotate at 5000rpm. By providing -9V, the motor will rotate at-5000rpm. The values range allowed by the analog input is ± 10V.



Automatic calculation of the Analog Input Offset

Provide a 0V analog reference from a NC. Press 'Calc Offset'; after 1.5 s the analog input offset will be captured and displayed, in mV, in the Analog In1 Offset box.
Is it possible to perform a fine tuning of the offset with a manual editing of the 'Analog In1 Offset' parameter.



N.B.: at the end of the parameters setting procedure, press the icon Save parameters in drive memory to make the changes permanent.