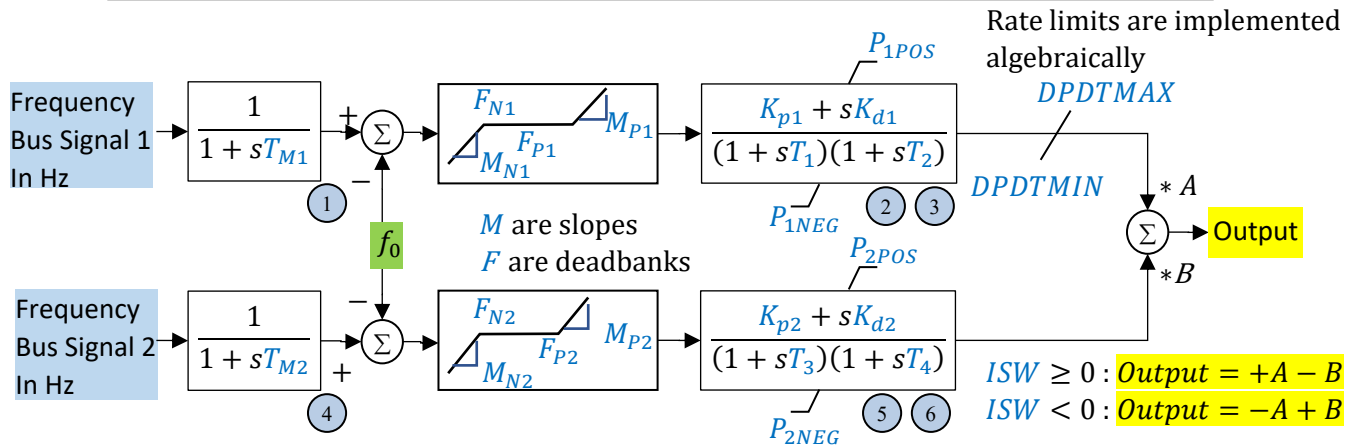


DC Line Auxiliary Controller CHAAUT

HVDC CHAAUT Auxiliary Controller for Two terminal D.C. Transmission

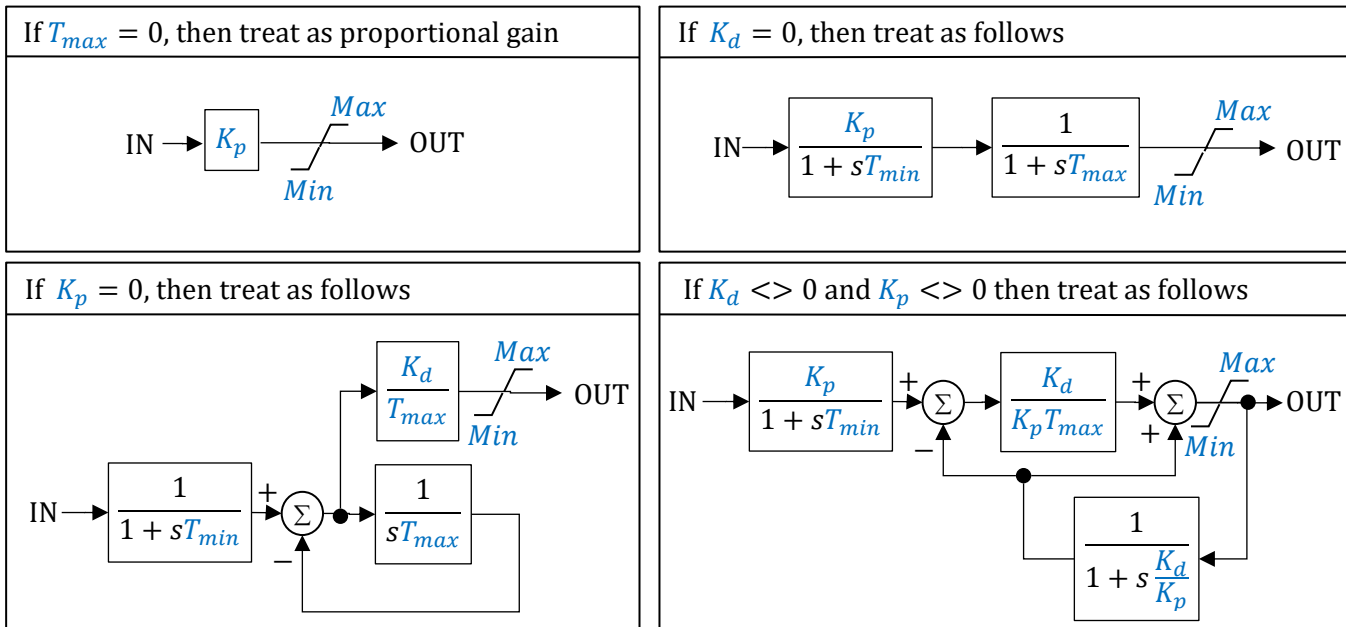
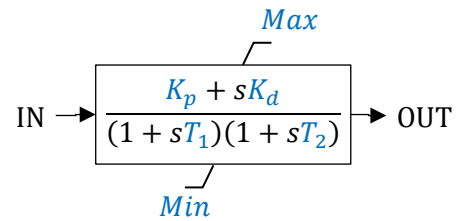


Model supported by PSSE

Special Implementation of the Proportional/Derivative non-windup Limit Blocks

Numerical treatment of input parameters is as follows

- If $K_p = K_d = 0$, then the block output is always 0.0 so ignore it.
- If $K_d/K_p < 4 * \text{TimeStep}$ then K_d is set $K_d = 0$ to avoid numerical problems and because the derivative term is negligible.
- Define T_{min} as the minimum of T_1 and T_2
- Define T_{max} as the maximum of T_1 and T_2



For a Detailed Treatment of how DC lines are implemented in the software see the help topic at https://www.powerworld.com/WebHelp/#TransientModels_HTML/Overview%20of%20HVDC%20Modelling.htm