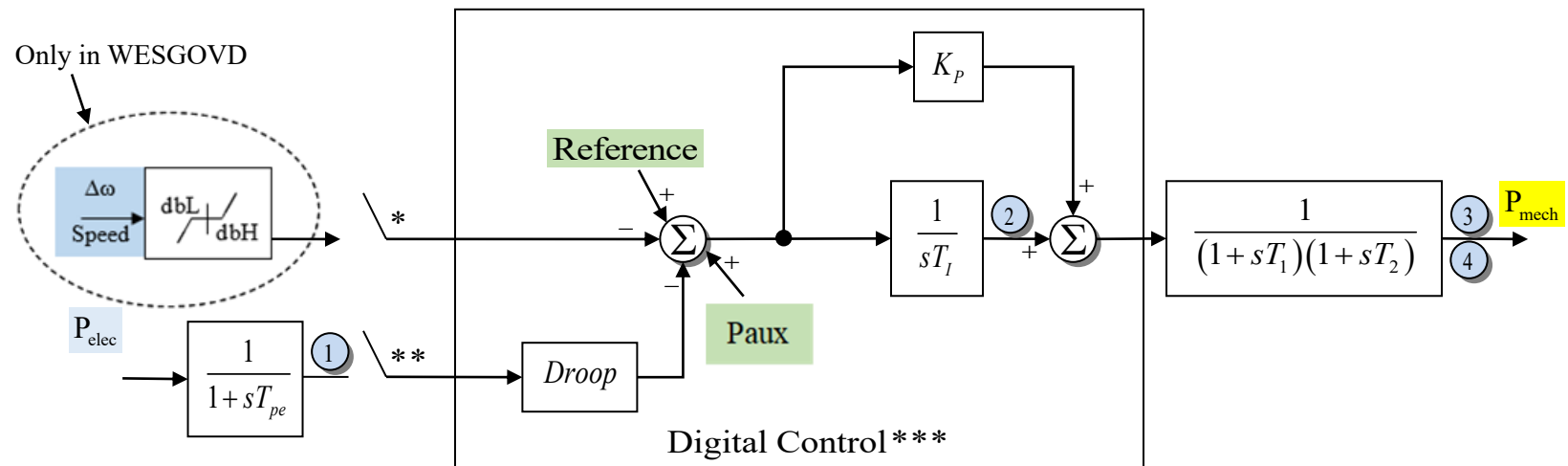


Governor WESGOV and WESGOVD

Governor WESGOV and WESGOVD
Westinghouse Digital Governor for Gas Turbine Model



*Sample hold with sample period defined by Delta TC.

****Sample hold with sample period defined by Delta TP.**

***Maximum change is limited to A_{lim} between sampling times.

footnotes:

Input and Outputs are on the Trate base.

If $\text{Trate} = 0$, then machine MVABase is used.

States

1 - PEMeas

2 - Control

3 - Valve

4 - PMech

Model supported by PSSE

A_{lim} read but not implemented in Simulator

Parameters for WESGOV:

DeltaTC	Delta t sample for controls, sec
DeltaTP	Delta t sample for PE, sec
Droop	Droop
Kp	Proportional gain, pu
Ti	Integrator Time constant, sec
T1	Pmech time constant 1, sec
T2	Pmech time constant 2, sec
Alim	Maximum change is limited by this value between sampling times
Tpe	Pelec time constant, sec

Parameters for WESGOVD:

DeltaTC	Delta t sample for controls, sec
DeltaTP	Delta t sample for PE, sec
Droop	Droop
Kp	Proportional gain, pu
Ti	Integrator Time constant, sec
T1	Pmech time constant 1, sec
T2	Pmech time constant 2, sec
Alim	Maximum change is limited by this value between sampling times
Tpe	Pelec time constant, sec
dbH	Deadband High (pu)
dbL	Deadband Low (pu)
Trate	Turbine rating, MW