

Description of Mass data: Observe, Scope and Control selections			
Variable	Description	Units (default)	Signal name
Mass index i	Mass index number (automatically provided)		
Angle Teta_i	Mechanical angle of mass i in the lumped mass model of the turbine-generator set. This variable can be observed and/or sent to machine scopes.	rad	Teta_i
Angular velocity Omega_i	The actual mechanical speed of mass i of the machine shaft.	rad/sec	Omega_i
Torque Tm_i	Request for mechanical torques between the different shaft sections of the turbine-generator set. The shaft torque Tm_i is the torque on the shaft section connecting masses i and i+1. This variable can be observed and/or sent to machine scopes.	MNm	Tm_i
Power Pmss_i	The steady-state mechanical power applied on mass i. This variable can be observed.	MW	Pmss_i
Power Pm_i	Request for external control of mechanical power applied on mass i. This variable can be controlled.	MW	Pm_i

Signal identification rules

If the Observe option is selected, the corresponding mass signal becomes automatically available in the observe signal bundle of the machine. It is identified by the signal name. Example:

Teta_2

is the signal made available for observing the Angle variable on mass number 2.

If the Scope option is selected, the selected variable will become available under machine scopes. It will be identified by the signal name followed by the machine name. Example:

Teta_2_SMX

is the signal name that becomes available for the machine named SMX and its Angle variable on mass number 2.