

Frequently Asked Questions

1. When I instrument a model, how do I know which of the signals have not been instrumented due to their unavailability (due to changes in the model)?

When the Instrument Model command is processed, all the available signals are instrumented. The unavailable signals are marked with an “X” in front of their names in the Instrument List window in the main MTM GUI (see Figure 1). This feature is not available in the batch mode.

2. Does saving a model or library save the instruments along with it as hard-coded elements?

No, this is the unique and powerful feature of the Model Test Manager. Instrumentation data is kept track of as a separate entity. The models are left uncorrupted.

3. Can I use the instrumentation configuration on a related model that differs only in its name from the original model?

Yes, the instrumentation will work as long as the blocks within the models are the same. The unavailable signals (that were available in the original model) are displayed with the “X” symbol in front of the respective instrument names in the Instrument List. You can use the batch mode command to do this or use the interactive mode as follows. Open the instrumentation information file using the pull down menu under File in the main MTM GUI. Type in the desired model name in the Model Name field and press “Enter”. When the tool asks if the instrument list can be retained, pick “Keep” option. Click on the “Instrument Model” button to complete instrumentation of the new model.

4. When I save, close and re-open a model, all the instruments within a library-linked element are present. I thought that the save operation should not save the instruments as hard-coded elements. What is going on?

The save operation will not save the instruments in the model as hard-coded elements. When you open a model, Simulink opens all the associated libraries in the memory[®] although you don’t see them in the screen. Closing the model does not close the associated libraries automatically. When you instrument a signal inside a library-linked element, the instrument is placed inside the library (although the library is not visible on the screen). When you close and re-open a model, it automatically pulls in the library elements from the open libraries. Hence, you will see the instruments inside the library-linked elements when you close and re-open the root model. To close all the open models and libraries use

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>> bdclose all
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at the MATLAB[®] command prompt. If you want to delete the instruments inside a library, browse this library by entering its name in the Model Name window of the main MTM GUI and pressing “Enter”. Select Remove Instruments from Model under the menu Tools to remove all instruments.

5. Can I instrument a signal that is inside a library-linked element and this library-linked element is used in multiple places within the same model?

Yes, you can instrument such signals. However, the only restriction is that if multiple instantiations of the same signal need to be instrumented in a model, then the same Instrument Type (ToWorkspace, Scope or Display) need to be used at all the locations.

6. I have used the “Remove instruments from model” command from the Tools menu bar, but sometimes the instruments in the open window on the screen does not get deleted. Is this an error in the tool?

Sometimes Simulink® does not seem to update the open system page especially in the model browser mode. The changes have taken place and the instrument should have been deleted with the pull down menu command. The best way to check this is to go to another page in the model through the model browser and then come back to the same old page. You should not see the instruments in this case.

7. What is the difference between the view in the System Tree window of the main MTM GUI and the Simulink® Model Browser?

The System Tree displays all the blocks with outputs while the Simulink® Model Browser displays only the subsystems. There is no means to look at the signals in the Simulink® Model Browser while the outputs of the selected block are displayed in the Outputs window of the main MTM GUI.

8. Can mns files of MIM be used in MTM?

Yes. Experiment setup files (mns files) of MIM can be seamlessly loaded into MTM. After using previous mns file, the experiment setup can be saved in previous version. Saving in previous version does not save actuators, calibrations and groups information.

9. I am not able to edit or change the groups property using the “Edit Instrument Property” GUI.

Groups can be added to (or removed from) an instrument only by using the context menu of that instrument list. In the edit properties GUI, you can only view the groups to which the instrument belongs.

10. From the main MTM GUI, how do I know which of the instruments or calibrations are not activated or not enabled?

In the main MTM GUI all the instruments or calibrations, which are not enabled or not activated, are marked with an “x” in the front of their names in the Sensor/Actuator/Calibration List.

11. I am not able to access or select context menu options in the Calibration List in the main MTM GUI.

Launching online calibration disables the context menu options in the calibration list and closing the online calibration GUI enables the context menu options. Hence make sure

that the online calibration is closed when accessing or selecting the context menu options in the Calibration List in the main MTM GUI.

12. It is taking too much time while resizing the main MTM GUI.

While doing resizing, after dragging the MTM window bring the cursor (mouse pointer) into the MTM window for resize to complete. If the cursor is outside the MTM window resize will not be completed.

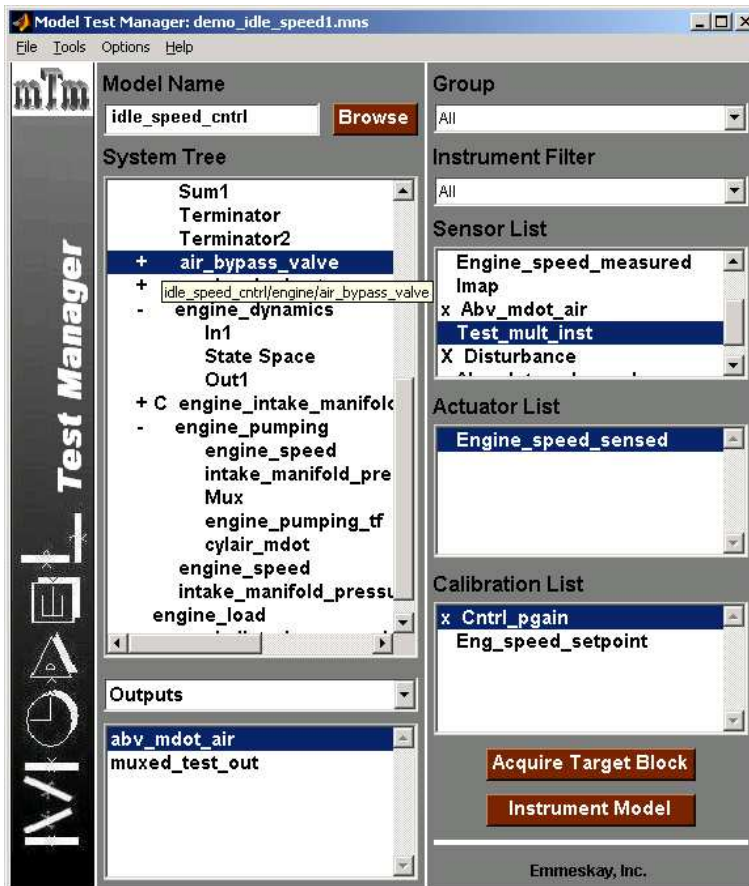


Figure 1: mTm Main GUI

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