

# Gauges Blockset 2

## Monitor signals with graphical instruments

The Gauges Blockset lets you add graphical instrumentation to your Simulink® models. You can create realistic-looking displays that are customized for your model and visually representative of the environment that you are modeling.

You can easily monitor any signal within your Simulink model through graphical instrumentation. The Gauges Blockset contains preconfigured blocks that can be customized to your application.

### Graphical Instrumentation Blocks

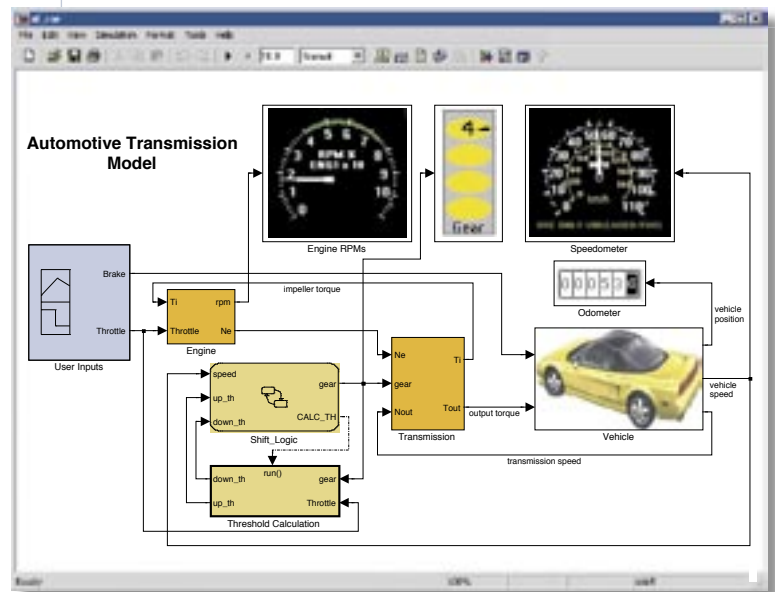
The Global Majic ActiveX Library in the Gauges Blockset contains more than 40 pre-configured blocks, including libraries of linear and angular gauges, numeric displays, light-emitting diodes (LEDs), percent indicators, on/off gauges, and a strip chart. You can customize various aspects of the blocks, including fonts, backgrounds, labels, tick marks, and gauge needle shapes. You can use these blocks anywhere in your Simulink models.

### ActiveX Controls

The Gauges Blockset graphical instruments are built with ActiveX controls. A generic ActiveX Control block lets you add an ActiveX control to your Simulink model. (This block can be configured only as a gauge. It does not support input controls.) You can make an ActiveX control available as a Simulink gauge block by specifying the name under which the ActiveX control is registered on your system, the events that cause the ActiveX control to perform an action, and the resulting action.

### KEY FEATURES

- Provides a library of customizable graphical instrumentation blocks to view signals
- Interfaces your Simulink model with any ActiveX control indicator
- Enables signal visualization in Simulink for real-time applications
- Includes an automotive instrumentation library



An automatic transmission system with graphical instrumentation blocks from the Gauges Blockset. Preprogrammed brake and throttle inputs result in changes in gears, vehicle speed, engine RPM, and distance traveled (seen on the generic linear gauge block, speedometer, tachometer, and odometer gauges, respectively).



From left to right: The LEDs, demo aircraft gauge, and automotive gauge libraries.

### Real-Time Application Support

The Gauges Blockset supports the external mode of Simulink. External mode establishes a communications link between a Simulink model and code, generated with Real-Time Workshop®, executing on any target system, such as xPC Target, the RSim Target in Real-Time Workshop, or Real-Time Windows Target. The Gauges Blockset lets you monitor signals from the target application while it is executing.

### Aircraft and Automotive Instrumentation Library

The Gauges Blockset contains an angular gauge block that can be configured to display automotive instruments and a demo version of Global Majic's aircraft instrumentation library. The aircraft instrumentation library consists of 12 blocks, including an altimeter, an airspeed indicator, and a compass.

### Required Products

MATLAB®  
Simulink

### Related Products

**Aerospace Blockset.** Model and simulate aircraft, spacecraft, missile, and propulsion systems

**Real-Time Workshop.** Generate optimized, portable, and customizable code from Simulink models

**Real-Time Windows Target.** Run Simulink models on a PC in real time

**Virtual Reality Toolbox.** Animate and visualize Simulink systems in three dimensions

**xPC Target.** Perform real-time rapid prototyping and hardware-in-the-loop simulation using PC hardware

For more information on related products, visit [www.mathworks.com/products/gauges](http://www.mathworks.com/products/gauges)

### Platform and System Requirements

For platform and system requirements, visit [www.mathworks.com/products/gauges](http://www.mathworks.com/products/gauges) ■

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