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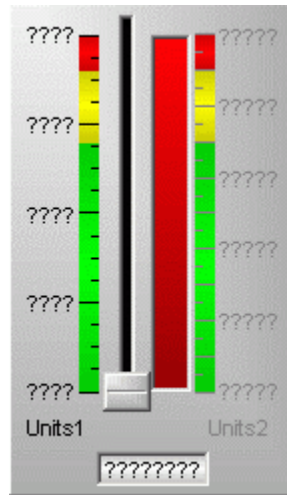


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Introduction

The Gauge ActiveX is included in the GENESIS32 installation, and it can be inserted into any container that has the capability to embed ActiveX objects, including GraphWorX32, Visual Basic forms, Microsoft Word, and Microsoft Excel.

To insert the Gauge ActiveX, choose **Insert New Object** from the **Edit** menu in GraphWorX32, or click the **Gauge ActiveX** button on the **ActiveX** toolbar. The Gauge will appear as shown below.



Gauge ActiveX

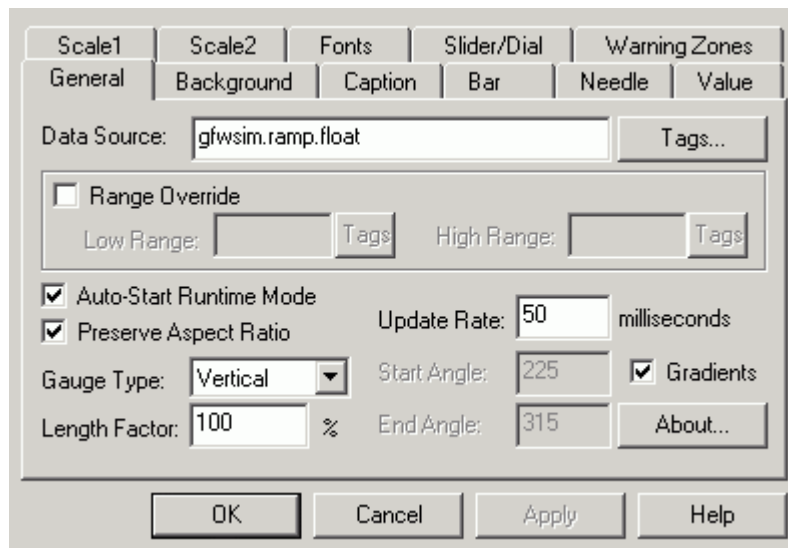
Property Pages

Double-clicking the gauge will open the **Gauge ActiveX Properties** dialog box, which contains the following property pages:

- **General**
- **Background**
- **Caption**
- **Bar**
- **Needle**
- **Value**
- **Scale1**
- **Scale2**
- **Fonts**
- **Slider/Dial**
- **Warning Zones**

General

The **General** tab of the **Gauge ActiveX Properties** dialog box, shown below, allows you to select the tag that will be the data source for the gauge. Clicking the **Tags** button allows you to browse through currently installed OPC servers and their associated tags as well as global aliases and language aliases. The **Range Override** check box allows you to override the ranges associated with their selected tag. If the **Auto-Start Runtime Mode** check box is checked when the display enters runtime mode, it will automatically start to process data. Otherwise, the gauge will still appear as it does in configuration mode. The **Preserve Aspect Ratio** check box determines whether the gauge will maintain its ratio when you change its dimensions by moving the edges of the object's frame. The **Gauge Type** field allows you to choose which type of gauge to use: vertical, horizontal, or circular.



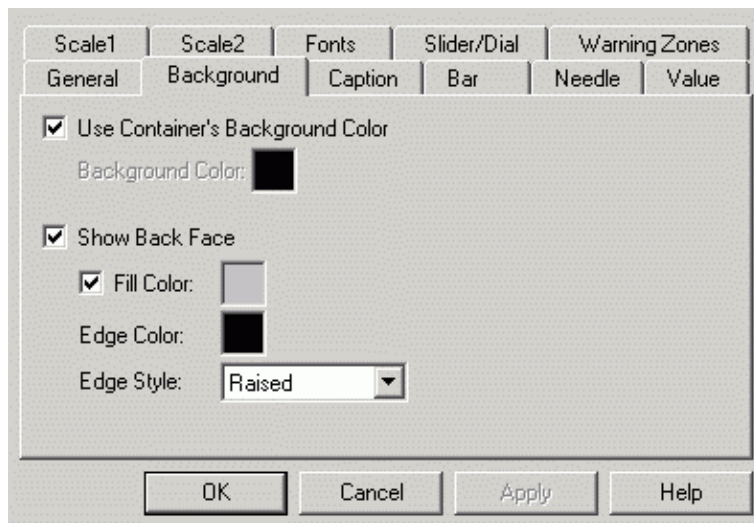
Gauge ActiveX Properties: General Tab

The **Length Factor** field determines how long the dial hand will be and determines the diameter (circular) or length (vertical or horizontal) of the gauge. The **Update Rate** field determines how fast the system will update the data being displayed through the gauge. The fastest update rate is 50 milliseconds; the faster the update rate, the more fluid the motion of the gauge. The **Start Angle** and **End Angle** fields are only valid when dealing with a circular gauge, and they determine where in the display the gauge will begin and end. The default is set to begin at 225 degrees and end at 315 degrees.

Background

The **Background** tab of the **Gauge ActiveX Properties** dialog box, shown below, is used to configure the appearance of the gauge within the container. If the **Use Container's Background Color** box is checked, the background color of the gauge will automatically be set to match the background color of the container. By unchecking this box, you can select a color for the background, and the gauge will now have a border around it. The **Show Back Face** check box determines whether the gauge will have an edge border. If the check box is

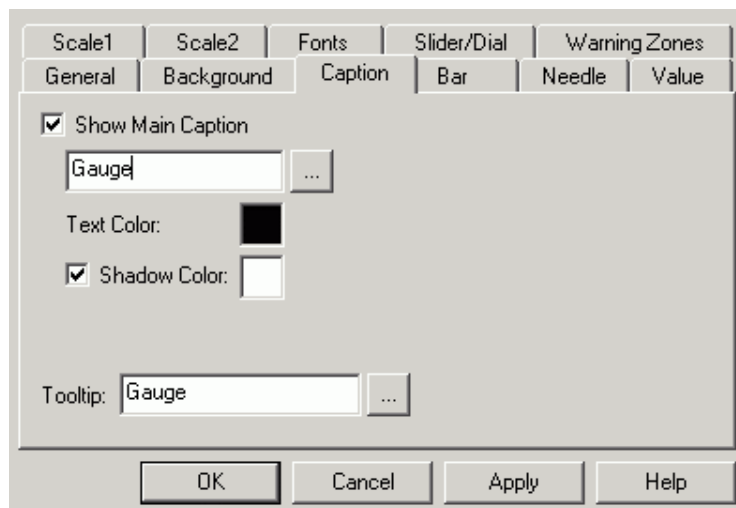
not checked, the gauge will either look like it is part of the display or will have the user-defined background color. If the check box is checked, you can choose a fill color or opt to have the default gray as the fill color. You can also choose an edge color and an edge style (thin line, medium line, thick line, etched, bump, raised (default), sunken, or no edge).



Gauge ActiveX Properties: Background Tab

Caption

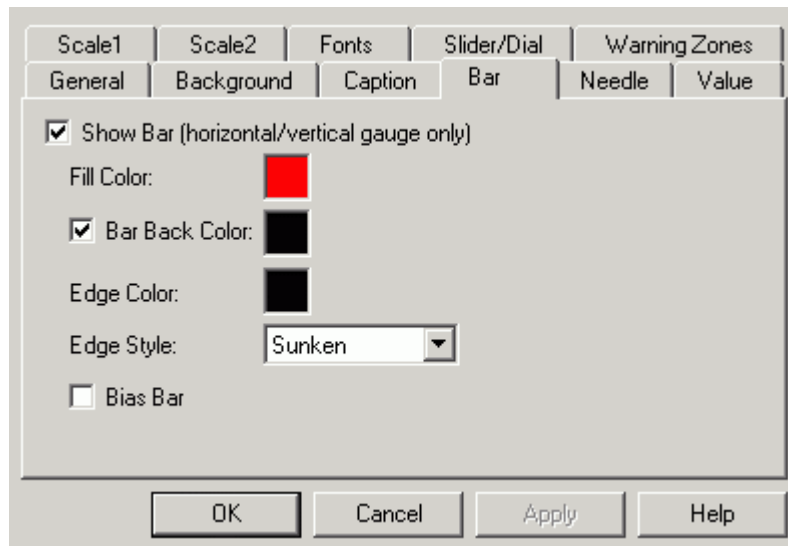
The **Caption** tab of the **Gauge ActiveX Properties** dialog box, shown below, allows you to configure the caption that appears on the gauge, as well as enter text for the gauge ToolTip that appears when the mouse pointer is over the object. If the **Show Main Caption** check box is checked, the text entered underneath will appear as the title of the gauge. The following color boxes allow you to choose the text color and the text shadow color. The **ToolTip** field allows you to enter a word, phrase, or message to appear as a ToolTip to the user.



Gauge ActiveX Properties: Caption Tab

Bar

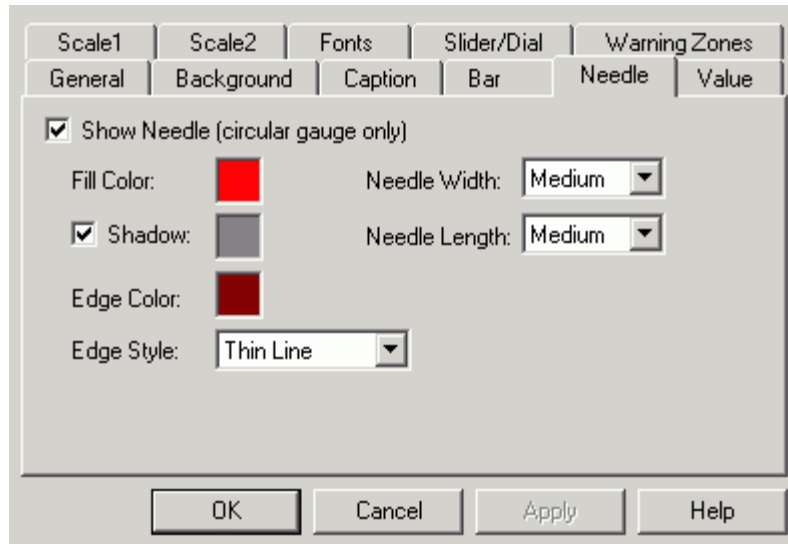
The **Bar** tab of the **Gauge ActiveX Properties** dialog box, shown below, is only applicable if you are using a horizontal or vertical gauge. If you check the **Show Bar** check box, a bar will appear next to the slider in the color designated in the **Fill Color** box. You can change this color either by clicking this box and selecting a color from the Color Palette, or by designing your own color. If the **Bar Back Color** box is checked, you can choose what the color behind the resizing bar will be. The **Edge Color** determines the color of the edge, and the **Edge Style** drop-down menu allows you to select an edge style (thin line, medium line, thick line, etched, bump, raised, sunken, or no edge). The **Bias Bar** check box changes the configuration of the bar so that the bar resizes from its center.



Gauge ActiveX Properties: Bar Tab

Needle

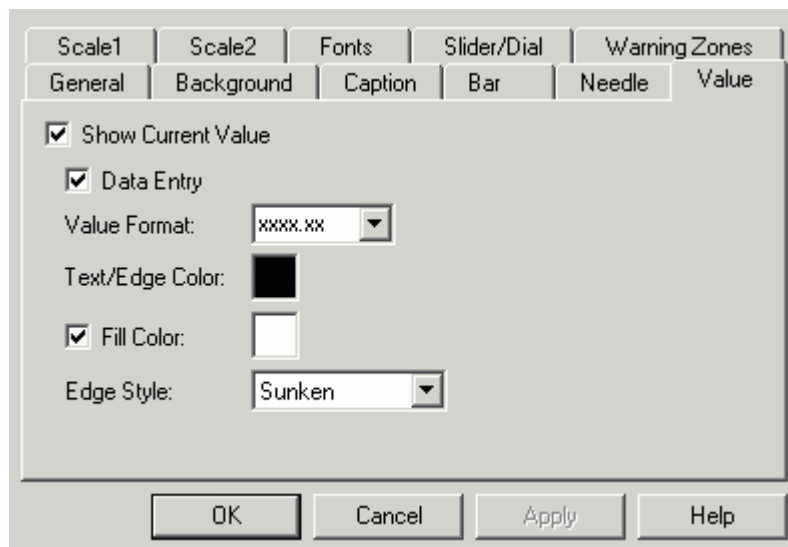
The **Needle** tab of the **Gauge ActiveX Properties** dialog box, shown below, only applies to the circular gauge. The **Show Needle** check box allows you to choose whether to have a needle on the gauge. If this box is not checked, no needle will appear. The following three color boxes determine the color of the needle, the color of the needle's shadow, and the color of the needle's edge. The **Edge Style** field is similar to the **Bar Edge Style** field in the **Bar** tab. The **Needle Width** and **Needle Length** fields allow you to configure the appearance of the needle.



Gauge ActiveX Properties: Needle Tab

Value

The **Value** tab of the **Gauge ActiveX Properties** dialog box, shown below, refers to the text box at the bottom of the gauge, where the value of the tag value is displayed. If the **Show Current Value** box is not checked, the box completely disappears from the display. The **Value Format** field allows you to choose from various numeric forms in which the data can be displayed, and the **Text/Edge Color** field determines the color of the text in this box. As in the **Bar** and **Needle** tabs, the **Fill Color** and **Edge Style** fields determine the appearance of the box within the display. Selecting the **Data Entry** check box allows you to type new data values into this field during runtime mode.



Gauge ActiveX Properties: Value Tab

Scale1

The **Scale1** tab of the **Gauge ActiveX Properties** dialog box, shown below, configures the appearance of the interior, left, or bottom scale on the gauge. You can define a **Low** and **High** range for the gauge by either typing in numbers or selecting a tag. This tab also allows you to determine the number of ticks on each scale, as well as the color and format of the ticks. The **Units Label** field defines how the units will be distinguishable on the gauge.

The screenshot shows the 'Scale1' tab of the 'Gauge ActiveX Properties' dialog box. The 'Show Scale' checkbox is checked. The 'Low Range' is set to 0 and the 'High Range' is set to 100, both with 'Tags' buttons. The 'Label Every' is set to 1, with 'Major Ticks' checked. The 'Label Format' is set to 'xxx'. The 'Text Color' is black. The 'Units Label' is 'Units1'. On the right, 'Major Tick Divisions' is 5, 'Minor Tick Divisions' is 3, 'Tick Color' is black, and 'Tick Style' is 'Thin Line'. The bottom has 'OK', 'Cancel', 'Apply', and 'Help' buttons.

Gauge ActiveX Properties: Scale1 Tab

Scale2

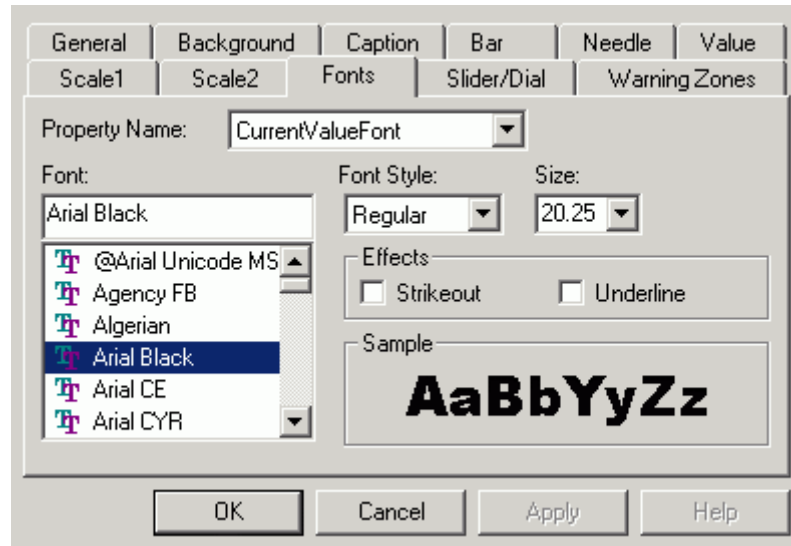
The **Scale2** tab of the **Gauge ActiveX Properties** dialog box, shown below, configures the appearance of the interior, left, or bottom scale on the gauge. The user can define a **Low** and **High** range for the gauge by either typing in numbers or selecting a tag. This tab also allows you to determine the number of ticks on each scale, as well as the color and format of the ticks. The **Units Label** field defines how the units will be distinguishable on the gauge.

The screenshot shows the 'Scale2' tab of the 'Gauge ActiveX Properties' dialog box. The 'Show Scale' checkbox is checked. The 'Low Range' is set to 0 and the 'High Range' is set to 1000, both with 'Tags' buttons. The 'Label Every' is set to 2, with 'Major Ticks' checked. The 'Label Format' is set to 'xxxx'. The 'Text Color' is grey. The 'Units Label' is 'Units2'. On the right, 'Major Tick Divisions' is 11, 'Minor Tick Divisions' is 1, 'Tick Color' is grey, and 'Tick Style' is 'Thin Line'. The bottom has 'OK', 'Cancel', 'Apply', and 'Help' buttons.

Gauge ActiveX Properties: Scale2 Tab

Fonts

The **Fonts** tab of the **Gauge ActiveX Properties** dialog box, shown below, is similar to many fonts property screens, with one exception: the **Property Name** field. The drop-down menu allows you to specify which text font to change: **CurrentValueFont**, **MainCaptionFont**, **ScaleOneLabelFont**, or **ScaleTwoLabelFont**. The **Font** field determines the font, and the **Font Style** field determines whether the text will be **Regular**, **Bold**, **Italic**, or **Bold Italic**. The **Effects** section allows for strikethrough or underlining, and the **Sample** section shows a real-size example of the font, style, and size you have chosen.



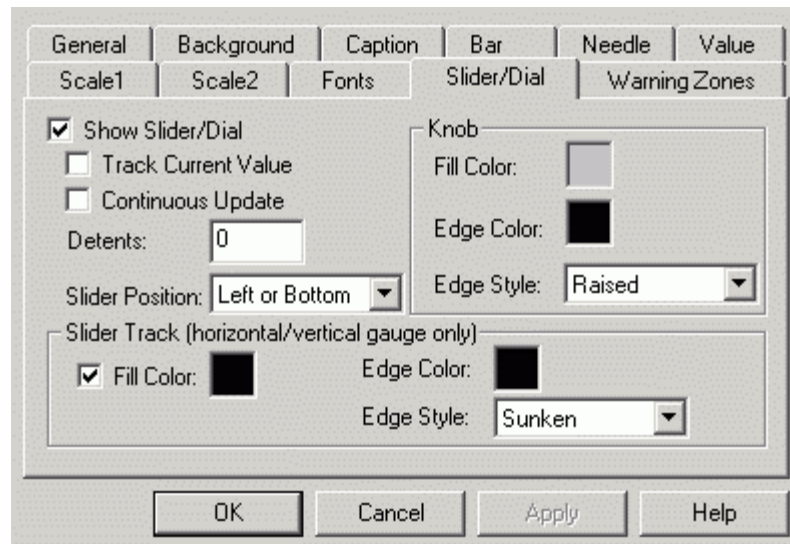
Gauge ActiveX Properties: Fonts Tab

Slider/Dial

The **Slider/Dial** tab of the **Gauge ActiveX Properties** dialog box, shown below, allows you to configure the appearance of the slider (in horizontal and vertical gauges) or the dial (in circular gauges). The slider/dial is used to change the gauge's data value during runtime mode. If the **Show Slider/Dial** box is not marked, then the rest of the tab is grayed out, and any changes that were made will not be applied. The **Track Current Value** and **Continuous Update** check boxes determine the data-collection methods. The **Detents** field allows you to set the increments at which the dial or slider will move within the gauge ("0" for no detents). The **Slider Position** field determines where the slider will be placed (**Left or Bottom**, or **Right or Top**).

The **Knob** section applies to all three types of gauges and determines the color of the dial or the slider.

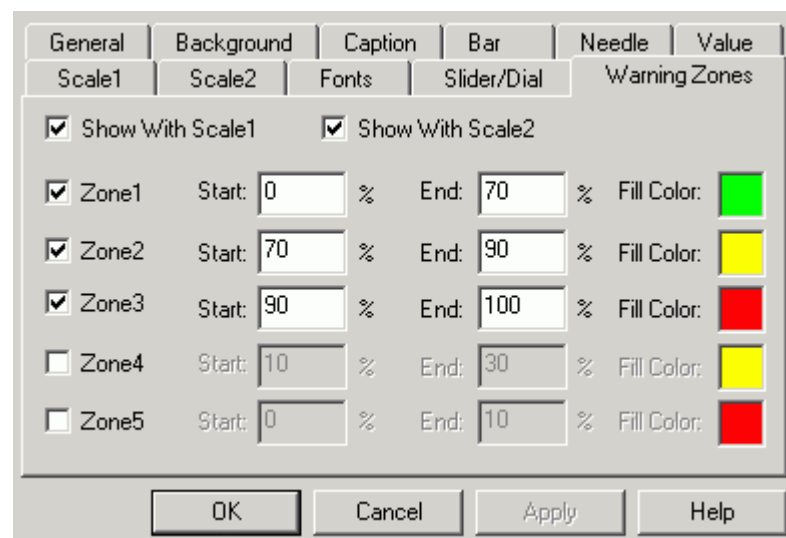
The **Slider Track** section determines the color and style of the actual bar on which the slider moves (applies to horizontal/vertical gauge only).



Gauge ActiveX Properties: Slider/Dial Tab

Warning Zones

The **Warning Zones** tab of the **Gauge ActiveX Properties** dialog box, shown below, allows you to configure the color and the percentage for each warning zone. You can configure up to five zones. The **Show With Scale1** and **Show With Scale2** boxes determine whether the warning zones are shown with each scale.



Gauge ActiveX Properties: Warning Zones Tab