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Introduction to Numeric ActiveX

The Numeric ActiveX, shown below, is included in the GENESIS32 installation. It can be inserted into any container, such as GraphWorX32, Visual Basic forms, Microsoft Word, or Microsoft Excel, that has the capability to embed ActiveX objects.



Numeric ActiveX

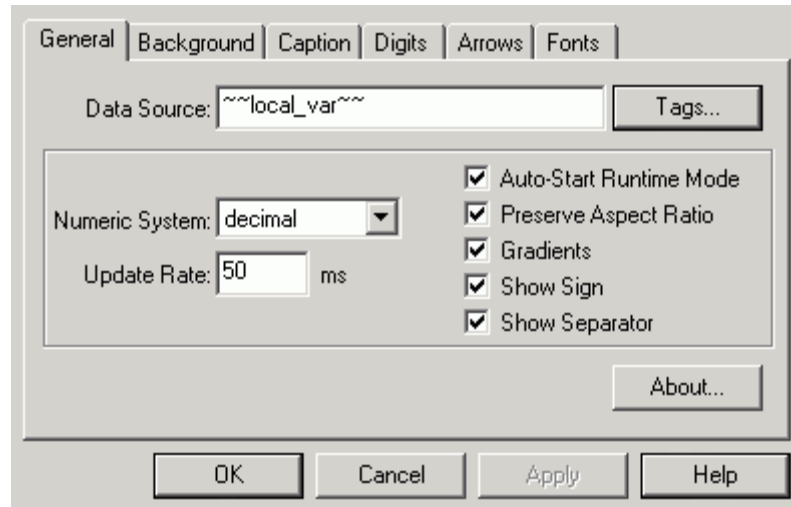
Numeric ActiveX Properties

To insert the Numeric ActiveX, choose **Insert New Object** from the **Edit** menu. This opens the **Insert Object** dialog box. Select **Numeric ActiveX** from the list of object types in the **Insert Object** dialog box. Double-clicking on the Numeric ActiveX (or right-clicking and then selecting **Properties**) opens the **Numeric ActiveX Properties** dialog box, which contains the following tabs:

- **General tab**
- **Background tab**
- **Caption tab**
- **Digits tab**
- **Arrows tab**
- **Fonts tab**

General Tab

The **General** tab of the **Numeric ActiveX Properties** dialog box, shown below, allows you to select the tag that will be the data source for the numeric. 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.



Numeric ActiveX Properties: General Tab

The **Numeric System** combo box allows you to select the numerical system used for displaying the current value. The choices are binary, octal, decimal, and hexadecimal.

The **Update Rate** field determines how fast the system will update the data being displayed through the numeric. The fastest update rate is 50 milliseconds. The faster the update rate, the more fluid the motion of the numeric will be.

If **Auto-Start Runtime Mode** is checked when the display enters runtime mode, it will automatically begin to process data. Otherwise, the numeric will still appear as it does in configuration mode.

The **Preserve Aspect Ratio** check box determines whether the numeric will maintain its ratio when you change its dimensions by moving the edges of the object's frame.

The **Gradients** option determines whether the numeric control will appear to be light-sourced. Using the **Gradients** option makes the numeric appear more three-dimensional and realistic. You may want to disable this option if you are using a computer that can only display a maximum of 256 colors.

The **Show Sign** option determines whether the numeric control will have a sign displayed. You may disable this option to get an absolute value.

The **Show Separator** option determines whether the numeric control will have a decimal point displayed.

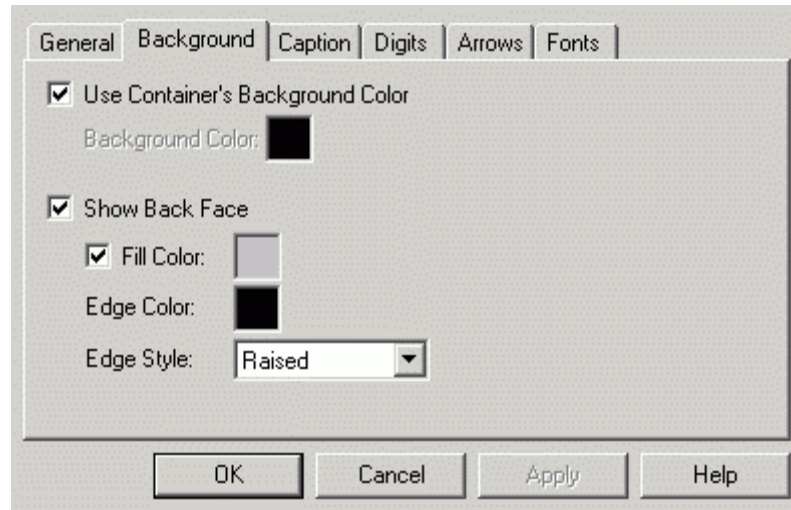
Clicking **About** opens the About Box.

Background Tab

The **Background** tab of the **Numeric ActiveX Properties** dialog box, shown below, is used to configure the appearance of the numeric within the container.

If the **Use Container's Background Color** is checked, the background color of the numeric 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 numeric.

The **Show Back Face** option determines whether the numeric will have a background faceplate. Attributes of the background faceplate that can be modified include **Fill Color**, **Edge Color**, and **Edge Style**.



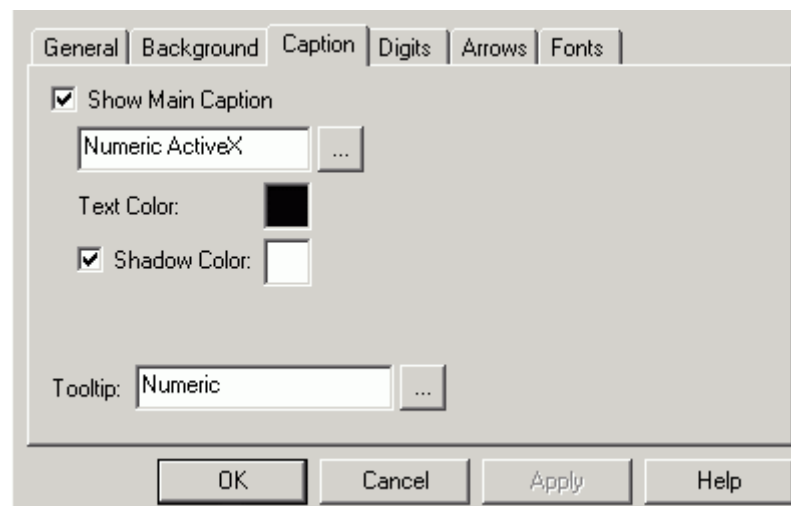
Numeric ActiveX Properties: Background Tab

Caption Tab

The **Caption** tab of the **Numeric ActiveX Properties** dialog box, shown below, allows you to configure the caption that appears on the numeric. It also allows you to enter text for the numeric ToolTip that appears when the mouse pointer is over the object.

If the **Show Main Caption** box is checked, the text entered in the box below it will appear as the title of the numeric. Controls are also included for modifying the caption's text color and optional text shadow color.

The **ToolTip** field allows you to enter a word, phrase, or message to appear as a ToolTip to the user.



Numeric ActiveX Properties: Caption Tab

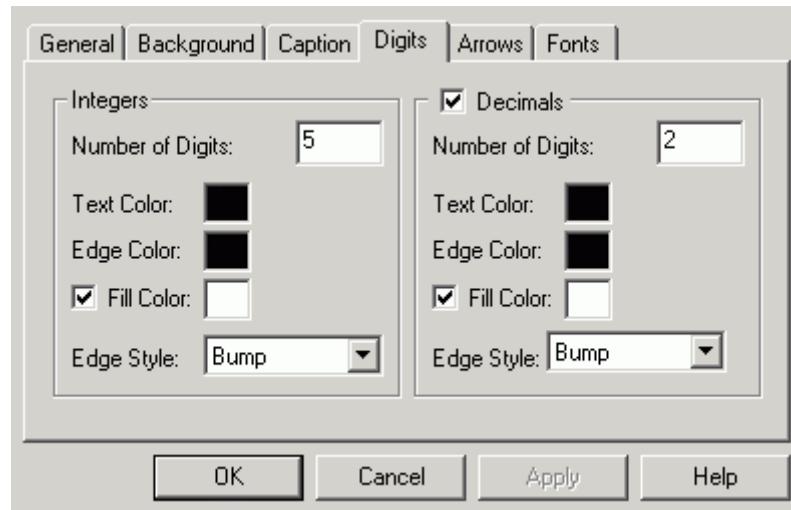
Digits Tab

The **Digits** tab of the **Numeric ActiveX Properties** dialog box, shown below, allows you to configure the number and appearance of integer figures and decimal figures in the numeric control independently.

The number of displayed digits in the numeric is determined by the settings in the **Number of Digits** fields in the **Digits** tab.

The **Text Color**, **Fill Color**, **Edge Color**, and **Edge Style** fields determine the appearance of the rectangle in which every figure will be displayed.

When the **Decimals** option is disabled, the decimals in the numeric will not be displayed.



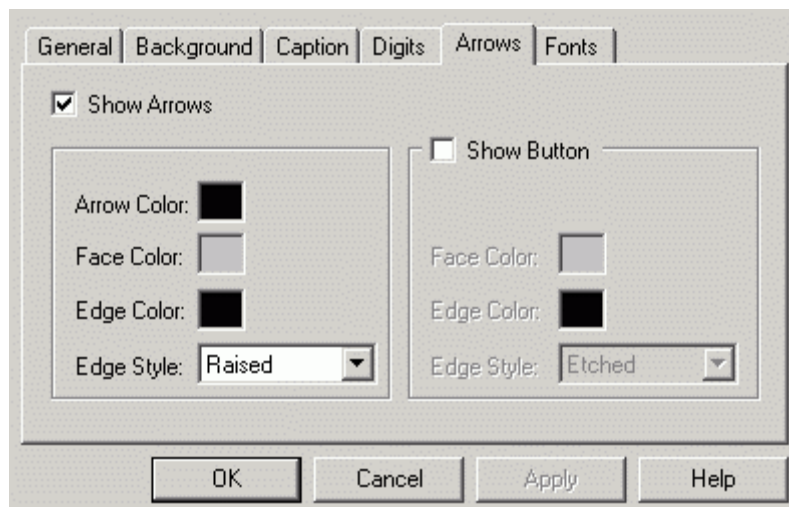
Numeric ActiveX Properties: Digits Tab

Arrows Tab

The **Arrows** tab of the **Numeric ActiveX Properties** dialog box, shown below, enables you to change the displayed data value in runtime mode. If **Show Arrows** is checked, each digit field in the numeric will be accompanied by arrow buttons that allow you to increase or decrease the digit value.

If **Show Button** is checked, the arrow buttons will appear as if they reside on the background button frame.

The **Face Color**, **Edge Color**, and **Edge Style** fields determine the appearance of the arrow buttons.

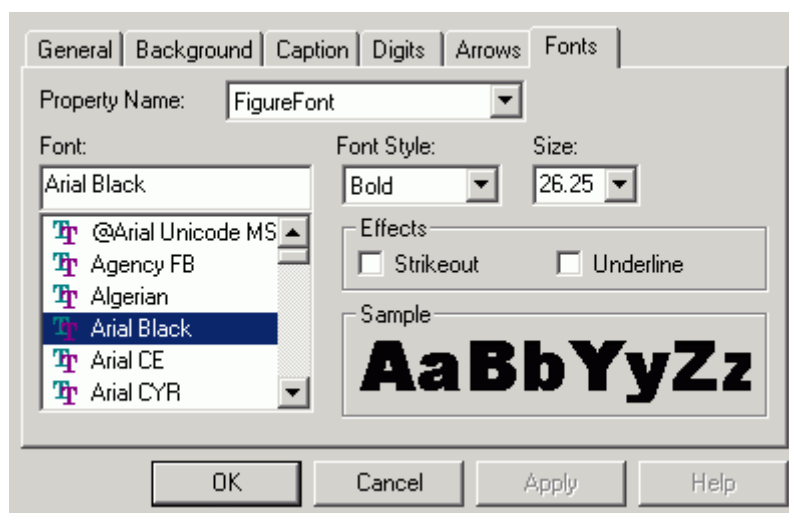


Numeric ActiveX Properties: Arrows Tab

Fonts Tab

The **Fonts** tab of the **Numeric ActiveX Properties** dialog box, shown below, is similar to many other fonts settings pages, with the exception of the **Property Name** field. This field enables you to choose which text to change: the **Main Caption Font** or the **Figure Font**.

The **Font** field enables you to select a font. The **Font Style** field contains **Regular**, **Bold**, **Italic** and **Bold Italic** settings. The **Size** field allows you to specify a point size for the text. The **Effects** field allows for **Strikeout** or **Underlining** of text. The sample section shows an example of the font, style, and size that you have chosen.



Numeric ActiveX Properties: Fonts Tab