Events:

Change
Click
GotFocus
LostFocus

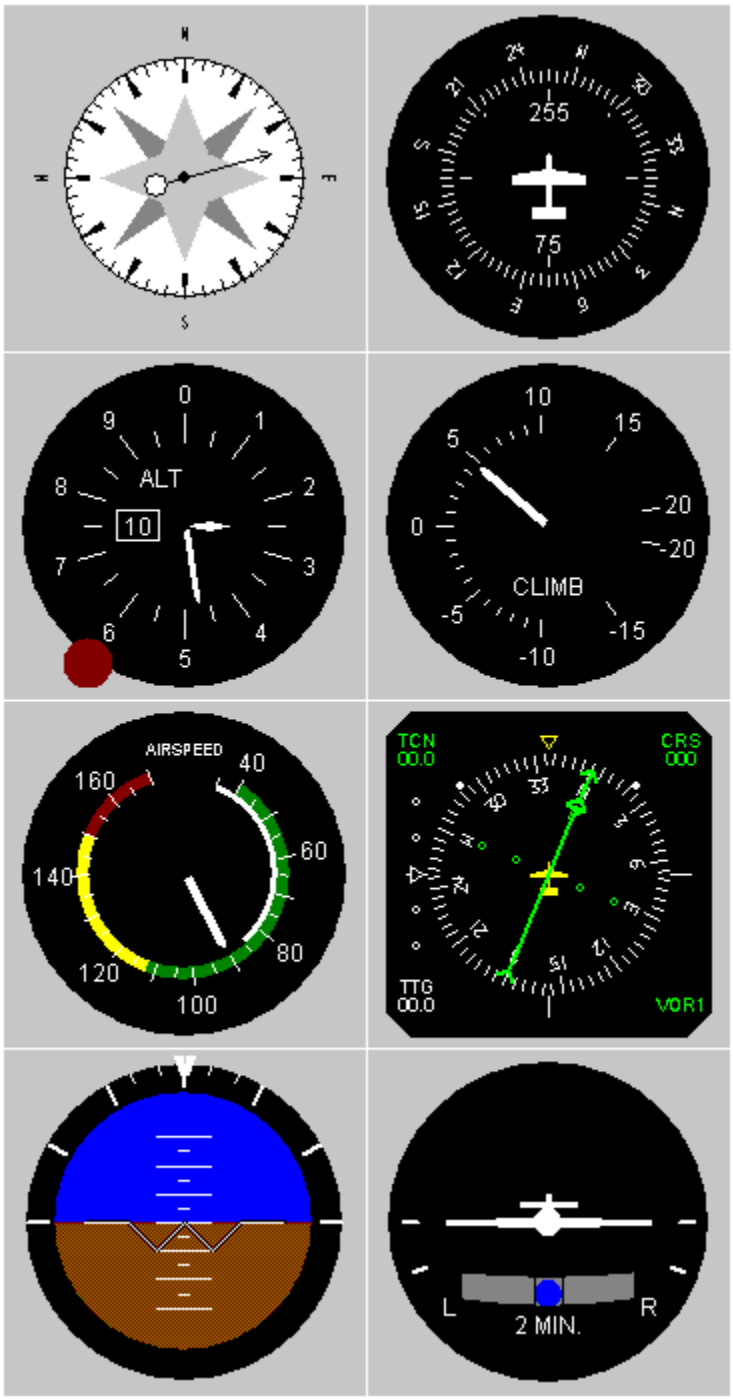
Properties:

AltBarometer
AltBarometricPressure
BackColor
Bank
BevelInner
BevelOuter
BevelWidth
BorderWidth
CompassStyle
DisplayMode
Enabled
FontSize
Height
HelpContextID
HSIBearing
HSICompass
HSICourseDelta
HSICourseDeviation
HSICourseDisplay
HSICourseHeading
HSIDistance
HSIDistanceDisplay
HSIGlideSlopeDelta
HSIGlideSlopeDeviation
HSINavigationSource
HSISpeed
HSITime
HSITimeSpeedDisplay
Inclinometer
Index
Left
MouseControl
MousePointer
Name
Pitch
TabIndex
TabStop
Tag
Top
Turn
Value
Visible
Width

Aircraft Instrument Control

Properties Events

Description:
Aircraft Instrument Controls display a variety of small airplane flight instruments including compass, heading indicator, altimeter, vertical speed indicator, airspeed indicator, horizontal situation indicator, artificial horizon, and coordinated turn indicator. The controls can be used as input controls when MouseControl is set to True. The controls include bevels for a 3D appearance.

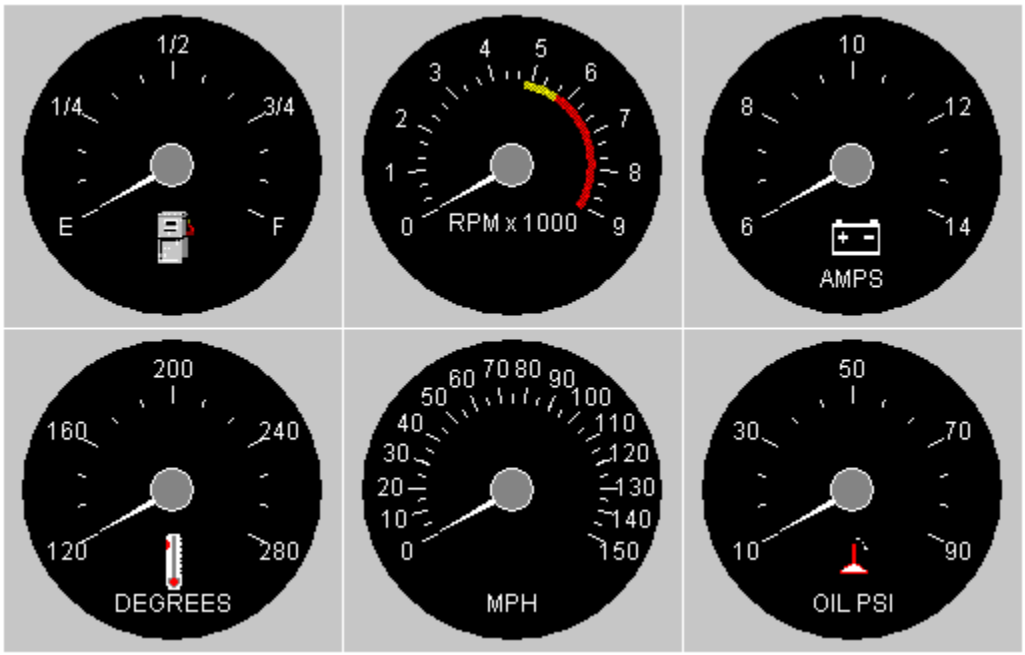

N
E
S
W
255
75
ALT
10
CLIMB
AIRSPEED
TCN
00.0
CRS
000
TTG
00.0
VOR1
L
2 MIN.
R

Car Gauges Control

Properties Events

Description:

Car Gauge Instrument Controls display a variety of automobile instruments including tachometer, speedometer, fuel level, oil pressure, amp gauge, and water temperature. The controls can be used as input controls when MouseControl is set to True. The controls include bevels for a 3D appearance.



Properties:

BackColor	FontSize	TabIndex
BevelInner	GaugeValue	TabStop
BevelOuter	Height	Tag
BevelWidth	HelpContextID	Top
BorderWidth	Index	Visible
DisplayMode	Left	Width
MouseControl	MousePointer	
Enabled	Name	

Global Majic Software, Inc. Custom Controls

Instrumentation Custom Control Library Ver 2.0

 Aircraft Instruments Control

 Car Gauges Control

 Gauge Control

 Knob Control

LED Control

Odometer Control

 Selector Control

 Slider Control

Toggle Switch Control

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Why Register?
Registration.
Registration For Compuserve Users

Product Support
Copyright

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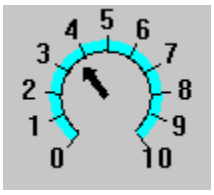
Gauge Control

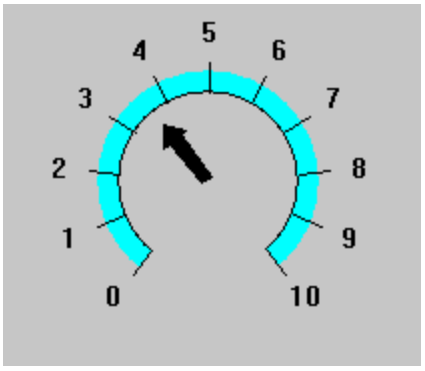
Properties Events

Description:

Generic Gauge Control is a highly customizable gauge or meter control. Properties are provided to modify gauge scales, tics, needles, annulars, captions, border and background. The mouse can optionally be used to change needle values.

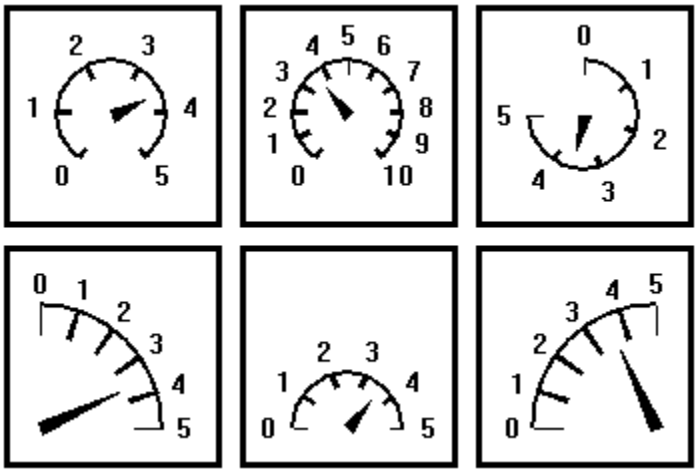
The properties which are used for sizing and positioning tics, annulars, needles, captions and hubs generally have a value between -1 and +1 which corresponds to the size of the control These units are used as opposed to pixels or twips in order to simplify resizing the control at design time. For example, the two images below are snap shots of the same control after it has been stretched in design mode. No property modifications necessary.



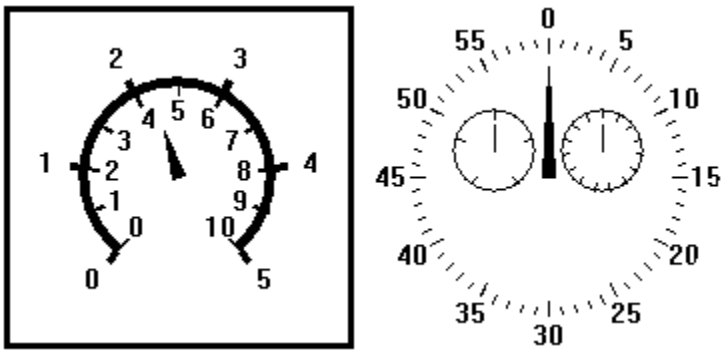


Scales:

Scales are used to define the extent of the units displayed by the gauge, the location of the gauge center, and the gauge's start and stop angles. For example, the following snap shots are of the same control with varying start-stop angles, start-stop values, and scale positions.

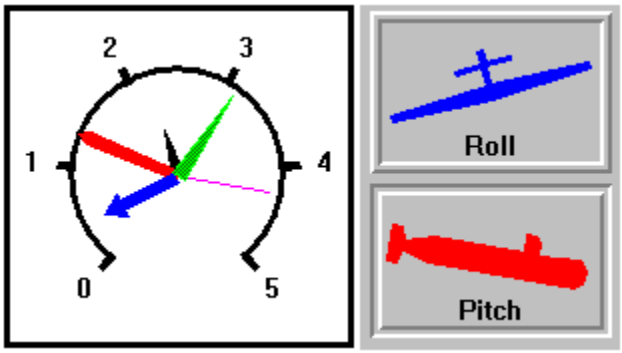


The control will allow multiple scales per gauge as shown in the following snap shots.



Needles:

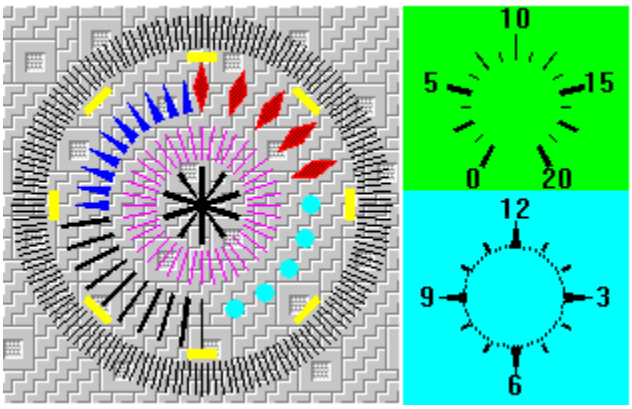
As shown in previous examples, needles can be displayed in a variety of shapes and sizes. Properties are provided to modify the needle's style, length, width, color and associated scale. User defined needle shapes can be specified as demonstrated in the pitch and roll indicators. Multiple needles can be placed on a single gauge as shown below:



Tics:

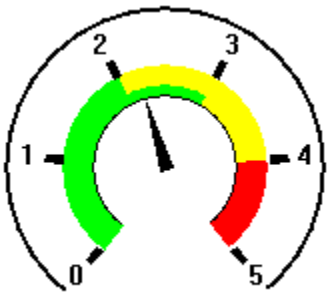
Tics are used to mark intervals on the gauge face. Properties are provided to set

the tic's style, start-stop values, interval, inner-outer radii, width, color, label positions, and associated scale. The following snap shots indicate the flexibility provided with the tic properties:



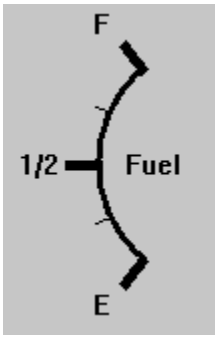
Annulars:

Annulars are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify annular's start-stop values, inner-outer radii, color, and associated scale. Multiple annular regions can be placed on a single gauge as shown below:



Captions:

The gauge can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labelling.



Properties

AnnularColor
AnnularID
AnnularInnerRadius
AnnularOuterRadius
Annulars
AnnularScaleID
AnnularStartValue
AnnularStopValue
BackgroundColor
BackgroundPicture
BevelInner
BevelOuter
BevelWidth
BorderType
BorderWidth
Caption
CaptionColor
CaptionID
Captions
CaptionX
CaptionY
Enabled
FrameColor
FramePicture
FrameScaleX
FrameScaleY
FrameStyle
Height
HelpContextID
HubColor
HubID
Hubs
HubScaleID
Index
Left
MouseControl
MousePointer
Name
NeedleColor
NeedleID
NeedleLength
Needles
NeedleScaleID
NeedleStyle
NeedleValue
NeedleWidth
OutlineAlign
OutlineColor
OutlineTitle
OutlineWidth
ScaleDirection
ScaleID
ScaleMaxValue
ScaleMinValue
ScaleOriginX
ScaleOriginY
Scales
ScaleStartAngle
ScaleStopAngle
Shape
TabIndex
TabStop
Tag
TicColor
TicDeltaValue
TicID
TicInnerRadius
TicLabel
TicLabelRadius
TicOuterRadius
Tics
TicScaleID
TicStartValue
TicStopValue
TicStyle
TicWidth
Top
Visible
Width

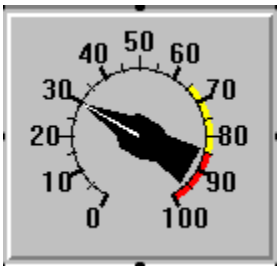
Knob Control

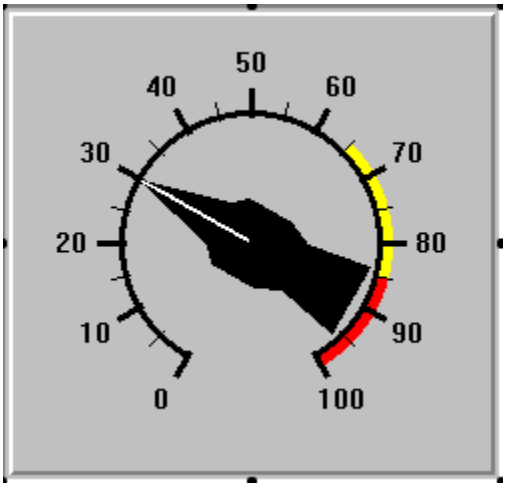
Properties Events

Description:

Knob Control is a highly customizable knob or dial control. Properties are provided to modify knob style, mark, scale, tics, annulars, captions, border and background. The mouse may optionally be used to change knob values. Additionally, there are snap and multiturn functions.

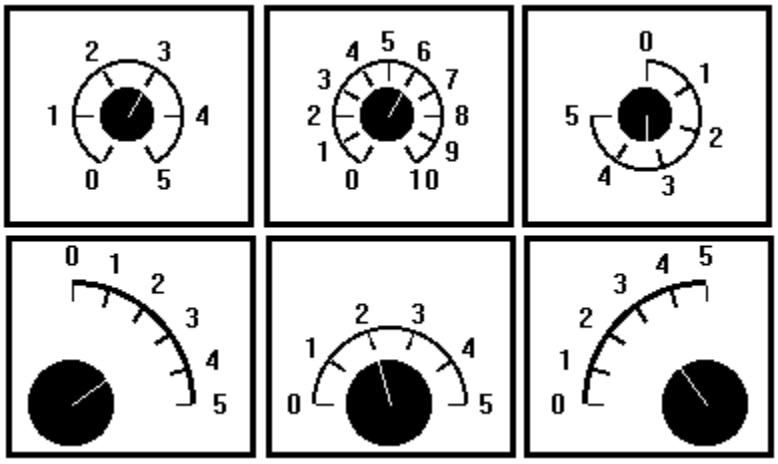
The properties which are used for sizing and positioning tics, annulars, needles, captions and hubs generally have a value between -1 and +1 which corresponds to the size of the control These units are used as opposed to pixels or twips in order to simplify resizing the control at design time. For example, the two images below are snap shots of the same control after it has been stretched in design mode. No property modifications necessary.





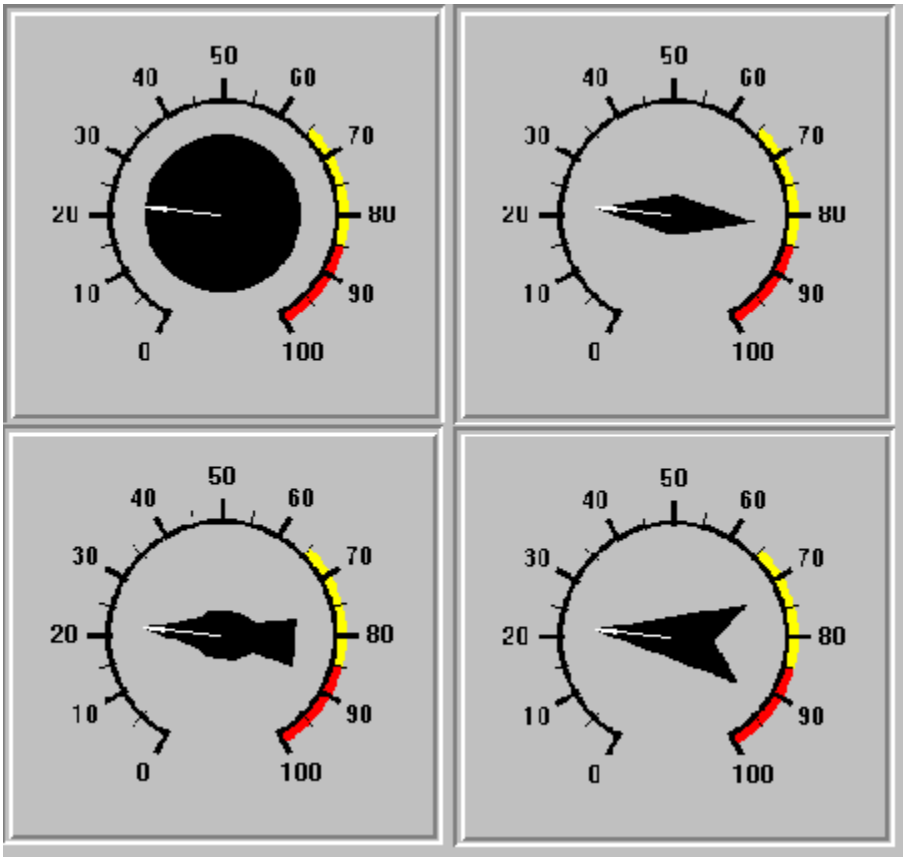
Scale:

Scale is used to define the extent of the units displayed on the knob, the location of the knob center, and the knob's start and stop angles. For example, the following snap shots are of the same control with varying start-stop angles, start-stop values, and scale positions.



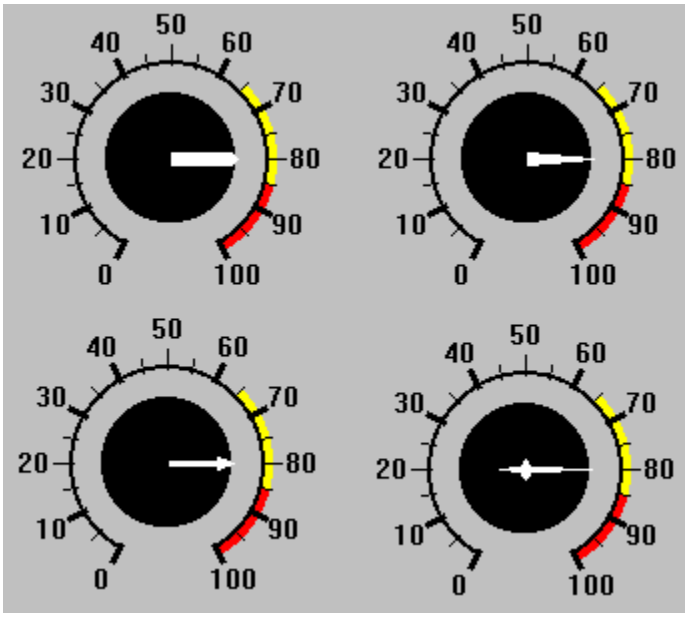
Knobs:

As shown in previous examples, there are several styles of knobs. Properties are provided to modify the knob's style, inner-outer radii, width, and color. Additionally, user defined knob shapes may be specified. Some examples are shown below:



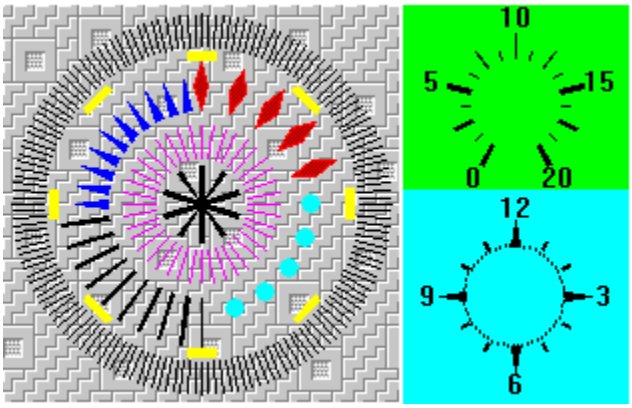
Mark:

Each knob may be adorned with a single mark. Properties are provided to modify the mark's style, inner-outer radii, width, and color. Additionally, user defined mark shapes may be incorporated into the control. Some examples are shown below:



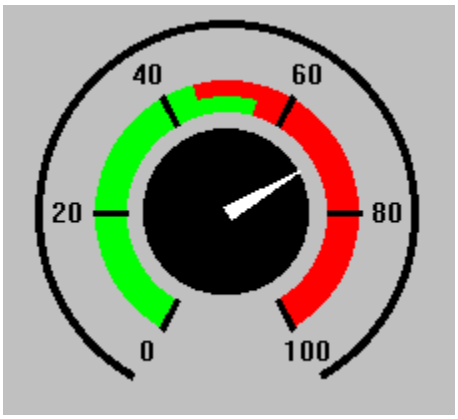
Tics:

Tics are used to mark intervals on the control face. Properties are provided to set the tic's style, start-stop values, interval, inner-outer radii, width, color, and label positions. The following snap shots indicate the flexibility provided with the tic properties:



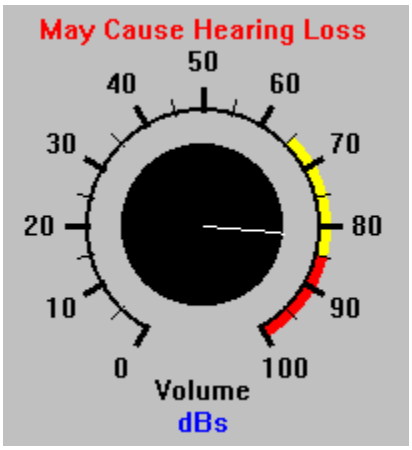
Annulars:

Annulars are used for aesthetics as well as indicators of operating ranges. Properties are provided to modify annular's start-stop values, inner-outer radii, and color. Multiple annular regions can be placed on a single control as shown below:



Captions:

The control can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labelling.



Events:

Change
Click
GotFocus
LostFocus
Mouse
MouseMove
Turn

Properties:

AnnularColor
AnnularID
AnnularInnerRadius
AnnularOuterRadius
Annulars
AnnularStartValue
AnnularStopValue
BackgroundColor
BackgroundPicture
BevelInner
BevelOuter
BevelWidth
BorderType
BorderWidth
Caption
CaptionColor
CaptionID
Captions
CaptionX
CaptionY
Enabled
FrameColor
FramePicture
FrameScaleX
FrameScaleY
FrameStyle
Height
Index
KnobColor
KnobMultiTurn
KnobMultiTurnValue
KnobRadius
KnobSnap
KnobSnapIncrement
KnobStyle
KnobUserDefined
KnobValue
Left
MarkColor
MarkInnerRadius
MarkOuterRadius
MarkStyle
MarkUserDefined
MarkWidth
MouseControl
MousePointer
Name
OutlineAlign
OutlineColor
OutlineTitle
OutlineWidth
ScaleDirection
ScaleMaxValue
ScaleMinValue
ScaleOriginX
ScaleOriginY
ScaleStartAngle
ScaleStopAngle
TabIndex
TabStop
Tag
TicColor
TicDeltaValue
TicID
TicInnerRadius
TicLabel
TicLabelRadius
TicOuterRadius
Tics
TicStartValue
TicStopValue
TicStyle
TicWidth
Top
Visible
Width

LED Control

Properties Events

Description:

This control displays a variety of LED styles including rectangular, circular, and user supplied bitmaps. The control can display a single LED as an on/off indicator or it may be configured as an array of horizontal or vertical LEDs to indicate an array of on/off indicators (Bitwise Mode) or a gauge or linear meter (Value Mode). The mouse can be used for input when the MouseControl property is set to True. The control include bevels for a 3D appearance.

Horizontal Examples:

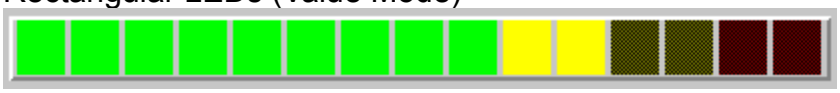
Bitmap LEDs (All off)

Bitmap LEDs (All on)

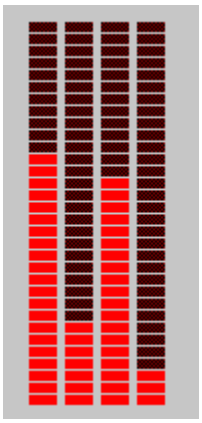
Bitmap Dip Switches (Bitwise Mode)

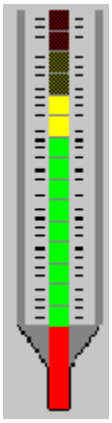
Circular LEDs (Bitwise Mode)

Rectangular LEDs (Value Mode)



Vertical Examples:





Equilizer Thermometer

Events

Click
GotFocus
LostFocus

Properties

AutoSize
BackColor
BackgroundPicture
BevelInner
BevelOuter
BevelWidth
BorderHorizontal
BorderVertical
BorderWidth
DecauRate
Direction
Enabled
Height
HelpContexID
Index
LEDColor
LEDHeight
LEDIndex
LEDSep
LEDStatus
LEDStyle
LEDWidth
Left
MaxDecay
Mode
MouseControl
Name
NumLEDs
OffPictureGreen
OffPictureRed
OffPictureYellow
OnPictureGreen
OnPictureRed
OnPictureYellow
TabIndex
TabStop
Tag
Top
Value
Visible
Width

Events

Click
GotFocus
LostFocus
Reset

Properties

BackColor
BevelInner
BevelOuter
BevelWidth
BordwerWidth
Decimal
Digits
Enabled
FontBold
FontItalic
FontName
FontSize
FontStrikeThru
FontUnderline
Height
HelpContextID
Index
Left
MousePointer
Name
ResetButton
ResetPicture
TabIndex
TabStop
Tag
Top
Value
Visible
Width

Odometer Control

Properties Events

Description:

The Odometer Control displays a simple odometer which has properties for font control, optional reset button, number of digits and number of decimal values. If a reset button is desired, the mouse may be used to reset the odometer. The control includes bevels for a 3D appearance.

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Product support for Instrumentation Custom Control Library is available to registered users by contacting Global Majic Software, Inc. at the following locations:

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Madison, Alabama 35758

CompuServe: 73261,3642
Internet: 73261.3642@compuserve.com

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Address: _____
_____
City, State,Zip: _____

Phone: _____
Fax: _____
E-mail address: _____

Instrumentation Custom Control Library Ver 2.0

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Selector Control

Properties **Events**

Description:

This control is a highly customizable selector switch. Properties are provided to modify the knob and mark styles, selections, line, offsets, captions, border and background. The mouse may optionally be used to change selector settings.

Selections:

Each switch may have several possible selections. The caption, color, alignment, and offset of each selection is controlled by the user. Additionally, there are automatic features that define the control with minimal work required.

Lines and Offsets:

The control's lines are controlled by the user. Properties are available to change line's inner radius and thickness as well as whether or not lines are visible. Offsets, on the other hand, may be controlled by either the contol or the user. The length and angle of each offset can be set.

Knob:

There are several styles of knobs that may be used in the selector switch control. Properties are provided to modify the knob's style, inner-outer radii, width, and color. Additionally, user defined shapes may be specified.

Mark:

Each knob may be adorned with a single mark. Properties are provided to modify the mark's style, inner-outer radii, width, and color. Additionally, user defined mark shapes may be incorporated into the control.

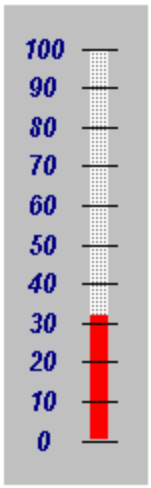
Captions:

The control can be embellished with multiple captions to indicate the type of measurement being displayed, units used or any other informative or decorative labeling. These captions are in no way related to the captions defined for each selection.

Slider Control

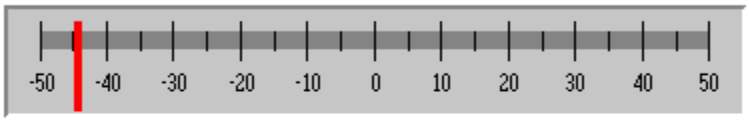
Properties Events

Description:
The Slider Custom Control is highly versatile and customizable, designed to allow the user to easily create any control, gauge, meter, etc. that incorporates a sliding mechanism in its functioning. The control is equipped with properties to change the On/Off characteristics of the sliding bar, the background, the tic marks, and the knob handle. Properties have been included to control both direction (forward or backward) and orientation (vertical or horizontal).

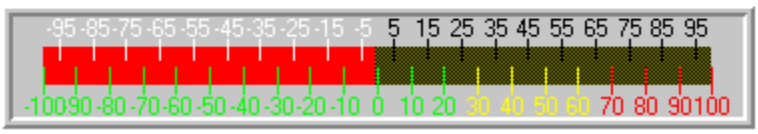


Equalizer Display

Dials



Multiple Tics



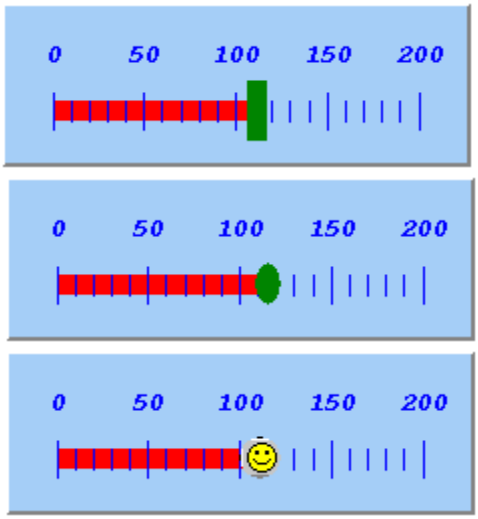
Bar Properties:

The slider bar properties allow the user to manipulate the On/Off characteristics of the slider separately. The user can either use a color or a bitmap to fill the On or Off bar area. Also, the width, border, and position of the bar can be controlled through the properties. The On/Off Bitmap Sample below utilizes the bitmap capability of the Slider Control and displays the same configuration with the Orientation Property set vertically and horizontally. In this sample, the BarInner Property is set to its minimum (0) and the BarOuter Property is set to its maximum(1), which maximizes the slider bar width on the control.

On/Off Bitmaps

Knob Properties:

There are also properties available to manipulate a knob. Knob properties exist for scaling, offset, color, shape, and bitmap. The first sample shows a green rectangular knob; The second sample shows the same control with a green circular knob; and the last sample shows the same control with a circular bitmap.



Tic Properties:

Tic properties were set up in an array fashion. The user can place as many sets of tic marks on any slider control as he likes. The first step is to adjust the Tics Property to tell the VBX how many sets of tic marks there will be. The second step is to tell the VBX which set of tic marks you wish to adjust by using the TicID Property. Each set of tic marks can be adjusted with color, increment, start and stop value, size, and placement. See the Multiple Tics Sample at the top of this page.

Events

Change
Click
GotFocus
LostFocus
MouseMove

Properties

BackColor
BackPicture
BarBorder
BarInner
BarOuter
BevelInner
BevelOuter
BevelWidth
BorderWidth
Direction
Enabled
FontBold
FontItalic
FontName
FontSize
FontStrikeThru
FontUnderline
Height
HelpContextID
Index
KnobColor
KnobOffset
KnobPicture
KnobStyle
KnobXScale
KnobYScale
Left
Max
Min
MouseControl
MousePointer
Name
OffColor
OffPicture
OnColor
OnPicture
Orientation
TabIndex
TabStop
Tag
TicColor
TicDelta
TicID
TicInner
TicLabelOn
TicLabelPosition
TicOuter
Tics
TicStart
TicStop
Top
Value
Visible
Width

Events

Click
DragDrop
GotFocus
LostFocus
MouseDown
MouseMove
MouseUp

Properties

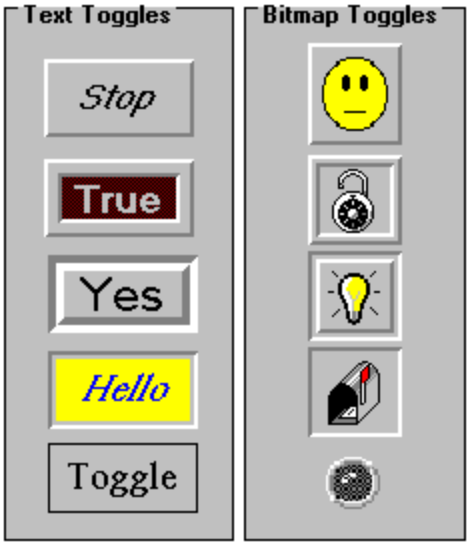
AutoSize
BackColor
BevelInner
BevelOuter
BevelWidth
BlinkMode
BlinkRate
BorderWidth
Enabled
FontBold
FontItalic
FontName
FontSize
FontStrikethru
FontUnderline
Height
HelpContextID
Index
Left
MousePointer
OffBackColor
OffCaption
OffForeColor
OffPicture
OffWave
OffX
OffY
OnBackColor
OnCaption
OnForeColor
OnPicture
OnTimer
OnWave
OnX
OnY
Outline
OutlineColor
PushPicture
PushX
PushY
Sound
TabIndex
TabStop
Tag
Top
TwoState
Value
Visible
Width

Toggle Switch Control

Properties Events

Description:

Toggle Switch Control is a TRUE/FALSE, YES/NO or ON/OFF indicator. The control displays captions or pictures to represent the toggle state depending on the control's value. The control is capable of playing wave files to indicate the switch turning on or off. It includes bevels for a 3D appearance and blinking capability to draw attention to the control. It also has a built in timed shut-off and blinking capability.



Remarks:

Wave files used with the control will not be stored in the control as the bitmap files are, therefore, all wave files need to accompany your application. Be carefull with using many timers and blinking controls on a single form because windows has a limited number of timer handles.

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Properties:

AutoAlign
AutoAngle
AutoOffset
AutoOffsetDistance
AutoOffsetStyle
AutoRadius
AutoStartAngle
AutoStopAngle
BackgroundColor
BackgroundPicture
BevelInner
BevelOuter
BevelWidth
BorderType
BorderWidth
Caption
CaptionColor
CaptionID
Captions
CaptionX
CaptionY
Enabled
FrameColor
FramePicture
FrameScaleX
FrameScaleY
FrameStyle
Height
Highlight
HighlightColor
Index
KnobColor
KnobOriginX
KnobOriginY
KnobRadius
KnobStyle
KnobUserDefined
Left
LineDisplay
LineInnerRadius
LineThickness
MarkColor
MarkInnerRadius
MarkOuterRadius
MarkStyle
MarkUserDefined
MarkWidth
MouseControl
MousePointer
Name
OutlineAlign
OutlineColor
OutlineTitle
OutlineWidth
SelectionAlign
SelectionAngle
SelectionCaption
SelectionColor
SelectionID
SelectionOffsetX
SelectionOffsetY
SelectionRadius
Selections
TabIndex
TabStop
Tag
Top
Value
Visible
Width